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.

PERFORMANCE CATALOGUE

VISION, MISSION AND VALUES

To be the industry leader providing best-in-class □uid 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

10000+
Products for various applications

1500+
Service Centres to support our Customers

22 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.



80mm & 90mm Borewell Submersible Pumpset
LENA / LENA PRO / LENA + Series

C.R.I. LENA, LENA PRO & LENA+ 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 service feasibility • Designed for wide voltage operation • Additional intermediate bearing in higher stage pumps.

APPLICATION

• Gardens • Irrigation • Farms • Industrial.

SPECIFICATIONS	80MM LENA / LENA PRO	90MM LENA+
Power range	0.37 kW - 1.1 kW (0.5 HP - 1.5 HP)	0.75 kW - 2.2 kW (1 HP - 3 HP)
Speed	2800 RPM	2850 RPM
Version	Single Phase 220V, 50Hz, A.C. Supply	Single Phase 220V, 50Hz, A.C. Supply
Maximum total head	156 Metre	289 Metre
Maximum flow rate	1.5 LPS (5.40 m^3/hr)	1.5 LPS (5.4 m^3/hr)
Maximum outer diameter	78 mm	87 mm
Thrust load	650 LBS	650 LBS
Minimum cooling flow along the motor	0.15 m/sec	0.15 m/sec
Method of starting	Capacitor Start Capacitor Run (CSCR)	Capacitor Start Capacitor Run (CSCR)
Maximum starts per hour	20 times	20 times
Nominal outlet size	25 & 32 mm	32 mm

PERFORMANCE CHART

2800 RPM - At Rated Voltage - Single Phase 220 Volts, 50Hz, A.C. Supply.

80mm BOREWELL SUBMERSIBLE PUMPSET - LENA Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24
					lps	0	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
CRI3R-31/0.75/12	0.55	0.75	12	32	Head in Metres	44	43	42	42	40	39	38		
CRI3R-31/1/17*	0.75	1.0	17	32		76	71	67	63	59	54	50	40	33
CRI3R-31/1/20	0.75	1.0	20	32		86	79	75	71	64	58	51	41	31
CRI3R-31/1/24	0.75	1.0	24	32		103	101	97	90	85	78	70	58	50
CRI3R-31/1.5/24*	1.1	1.5	24	32		105	101	97	93	88	80	71	60	50
CRI3R-31/1.5/28	1.1	1.5	28	32		128	118	114	108	100	92	82	69	55

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.72	1.44	2.16	2.88	3.60	4.32	5.04	5.40
					lps	0	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.50
CRI3R-33/1/10	0.75	1.0	10	32	Head in Metres	39	38	37	36	33	29	22	16	12

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.72	1.08	1.26	1.44	1.62	1.80	2.16	2.88	3.60	4.32	5.04
					lps	0	0.20	0.30	0.35	0.40	0.45	0.50	0.60	0.80	1.00	1.20	1.40
CRI3R-34/1/25	0.75	1.0	25	32	Head in Metres	99	90	82	74	62	49	30					
CRI3R-34/1.5/34	1.1	1.5	34	32		127	111	95	82	69	53	33					
CRI3R-34/1.5/38	1.1	1.5	38	32		156	136	118	108	96	82	60					
LENA-36/1/10	0.75	1.0	10	32		40.5	38.5	36.5	36	35	34	32.5	30.5	26	22	18	13
CRI3R-36/1/12	0.75	1.0	12	32		48	45	43	42	41	39	38	35	31	26	20	15
CRI3R-36/1/15	0.75	1.0	15	32		60	55	52	51	49	48	46	43	41	33	26	19
CRI3R-36/1.5/17	1.1	1.5	17	32		67	64	62	60	58	57	55	52	45	39	30	22

DISCHARGE

* Marked pumpset are having ISI licence.

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase 220 Volts, 50Hz, A.C. Supply.

80mm BOREWELL SUBMERSIBLE PUMPSET - LENA PRO Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24
					lps	0	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
LENA PRO-30/1/32	0.75	1.0	32	25	Head in Metres	89	83	77	70	61	49	33		
LENA PRO-31/1/17	0.75	1.0	17	32		76	71	67	63	59	54	50	40	33
LENA PRO-31/1/24	0.75	1.0	24	32		103	101	97	90	85	78	70	58	50

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.72	1.08	1.26	1.44	1.62	1.80	2.16	2.88	3.60	4.32	5.04
					lps	0	0.20	0.30	0.35	0.40	0.45	0.50	0.60	0.80	1.00	1.20	1.40
LENA PRO-35/0.5/6	0.37	0.5	6	32	Head in Metres	28					25	24	23	19	16	10	5
LENA PRO-34/1/25	0.75	1.0	25	32		99	90	82	74	62	49	30					
LENA PRO-36/1/10	0.75	1.0	10	32		40.5	38.5	36.5	36	35	34	32.5	30.5	26	22	18	13
LENA PRO-36/1/12	0.75	1.0	12	32		48	45	43	42	41	39	38	35	31	26	20	15
LENA PRO-36/1/15	0.75	1.0	15	32		60	55	52	51	49	48	46	43	41	33	26	19
LENA PRO-36/1.5/17	1.1	1.5	17	32		67	64	62	60	58	57	55	52	45	39	30	22

DISCHARGE

90mm BOREWELL SUBMERSIBLE PUMPSET - LENA+ Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	1.44	2.16	2.88	3.24	3.6	4.32	4.68	5.04	5.40
					lps	0	0.4	0.6	0.8	0.9	1.0	1.2	1.3	1.4	1.5
WCFBK-2/1/16	0.75	1.0	16	32	Head in Metres	83.5	72	64.5	56	51	46.5	36	29.5	22.5	15.5
WCFBK-2/1.5/22	1.1	1.5	22	32		111	95	85	75	68.5	62	47	39	29	18.5
WCFBK-4/2/25	1.5	2.0	25	32		128	111	99.5	86	78.5	71	55	45.5	35	25.5
WCFBK-4/2/32	1.5	2.0	32	32		167	139	124	108	98.5	87.5	66.5	53.5		
WCFBK-4/3/35	2.2	3.0	35	32		174	149	132	115	105	94	69.5	55.5	40.5	22.5

DISCHARGE

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase 220 Volts, 50Hz, A.C. Supply.

90mm BOREWELL SUBMERSIBLE PUMPSET - LENA+ Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24
					lps	0	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
WCFBK-3/2/35	1.5	2.0	35	32	Head in Metres	185	171.5	157	143	124.5	105.5	83.5	62	36
WCFBK-2/2/40	1.5	2.0	40	32		201	180	162	140.5	116.5	89	62	31	
WCFBK-2/2/50	1.5	2.0	50	32		241.5	208	184.5	159	121.5	90.5	56	14.5	
WCFBK-2/3/60	2.2	3.0	60	32		289	249	214	176	137	98	55		

DISCHARGE

MATERIAL OF CONSTRUCTION - MOTOR

Part Name	Material
Stator shell	Stainless Steel
Shaft seal	Nitrile butyl rubber
Journal bushes	Carbon / LTB 4
Thrust Assembly	SS 420 and Graphite Carbon
Motor base	Cast iron
Motor Shaft	SS - 431
Snap Ring	SS - 316

MATERIAL OF CONSTRUCTION - PUMP

Part Name	Material
Check valve housing	Cast iron
Outer shell	Stainless Steel
Impeller	Noryl
Diffuser chamber	Noryl
Counter thrust pad	Hylem
Intermediate bearing (Sleeve / Bush)	SS - 410 / NBR
Suction inter connector	Cast iron
Pump shaft	SS - 304 / 431 / 410
Coupling	SS - 410

Marked pumpset are available with All Feature Panel.



80mm Borewell Submersible Pumpset- ZUNO LITE Series

C.R.I. ZUNO Lite 80 mm Borewell submersible motors are pre-filled with non-toxic liquid for best performance in low voltage and high efficiency. The 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. All vital components of these pumps are made up of corrosive resistance thermoplastic and the shaft is of SS 431.

SALIENT FEATURES

• More durability and hygiene • High operating efficiency • Designed for wide voltage operation • Additional intermediate bearing in higher stage pumps.

APPLICATION

• Gardens • Irrigation • Farms • Industrial.

SPECIFICATIONS	80MM ZUNO LITE
Power range	0.75 kW (1.0 HP)
Speed	2800 RPM
Version	Single Phase 220V, 50Hz, A.C. Supply
Maximum total head	70 Metre
Maximum flow rate	1.5 LPS (5.40 m^3/hr)
Maximum outer diameter	78 mm
Thrust load	650 LBS
Minimum cooling flow along the motor	0.15 m/sec
Method of starting	Capacitor Start Capacitor Run (CSCR)
Maximum starts per hour	20 times
Nominal outlet size	32 mm

PERFORMANCE CHART

2800 RPM – At Rated Voltage – Single Phase 220 Volts, 50Hz, A.C. Supply.

80mm BOREWELL SUBMERSIBLE PUMPSET - ZUNO LITE Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24
					lps	0	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
CRI3R-31/1/17	0.75	1.0	17	32	Head in Metres	70	66	64	62	55	49	44	34	24

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.72	1.44	2.16	2.88	3.60	4.32	5.04
					lps	0	0.20	0.40	0.60	0.80	1.00	1.20	1.40
CRI3R-36/1/12	0.75	1.0	12	32	Head in Metres	48	45	41	35	31	26	20	15

DISCHARGE

MATERIAL OF CONSTRUCTION - MOTOR	
Part Name	**Material**
Stator shell	SS 304
Shaft seal	Nitrile Butyl Rubber / Mechanical Seal
Motor base	Cast iron
Motor Shaft	SS - 431
Bearing	SS Ball Bearing
Snap Ring	SS - 316

MATERIAL OF CONSTRUCTION - PUMP	
Part Name	**Material**
Check valve housing	Cast iron
Outer shell	Stainless Steel
Impeller	Noryl
Diffuser chamber	Noryl
Counter thrust pad	Hylem
Intermediate bearing (Sleeve / Bush)	SS - 304 / NBR
Suction inter connector	Cast iron
Pump shaft	SS - 304
Coupling	SS - 410



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

	100 MM GENIE
Power range	0.37 kW - 5.5 kW (0.5 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^3/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	Capacitor Start Capacitor Run(CSCR) / 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 Volts
Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.72	1.08	1.44	1.80	2.16	2.52	2.88	Star Rating
					lps	0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	
CRI4F-1F/0.5/05	0.37	0.5	5	32	Head in Metres	44	39	37	33	28	22	13		
CRI4F-1F/0.5/07*	0.37	0.5	7	32		59	55	52	47	40	31	17		
CRI4F-1F/0.75/11*	0.55	0.75	11	32		88	83	77	69	60	40	18		3
CRI4F-1F/0.75/12	0.55	0.75	12	32		100	94.5	88.5	77.5	66	51.5	28.5		
CRI4F-1F/1/14	0.75	1	14	32		118	110	103	93	79	59	38		
CRI4F-1F/1/16*	0.75	1	16	32		129	125	121	106	84	56	34	18	2
CRI4F-1F/1.5/21*	1.1	1.5	21	32		176	167	155	136	112	82	33		2
CRI4F-1F/1.5/25	1.1	1.5	25	32		202	183	165	143	118	88	40.5		
CRI4F-1F/2/27*	1.5	2	27	32		218	208	197	179	152	113	57		
CRI4F-1F/2/30	1.5	2	30	32		248	224	204	176	140.5	94.5	42		
CRI4F-1F/2/32	1.5	2	32	32		258	236.5	213	184	147	100.5	44		
CRI4F-2/3/32*	2.2	3	32	32		245	238	231	223	211	192	168	141	

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	1.44	1.80	2.16	2.52	2.88	3.24	3.60	4.32	Star Rating
					lps	0	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	
CRI4F-3/1.5/14*	1.1	1.5	14	32	Head in Metres	110	102	98	94	90	85	77	67	44	3
CRI4F-3/2/14	1.5	2	14	32		110	103	99	95	91	86	78	68	45	

* Marked pumpset are having ISI licence.

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts

Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.72	1.08	1.44	1.8	2.16	2.52	2.88
					lps	0	0.2	0.3	0.4	0.5	0.6	0.7	0.8
CRI4R-1E/0.5/09	0.37	0.5	9	32	Head in Metres	61	54	50	46	40	31	26	20
CRI4R-1E/0.5/10	0.37	0.5	10	32		64	57	52	46	40	34	27	19
CRI4R-1E/0.75/10	0.55	0.75	10	32		66	59	54	48	42	36	29	21
CRI4R-1E/0.75/12	0.55	0.75	12	32		83	75	70	64	57	50	40	30
CRI4R-1E/0.75/13	0.55	0.75	13	32		87	79	73	66	58	50	40	30
CRI4R-1E/1/13	0.75	1	13	32		89	81	75	68	60	52	42	32
CRI4R-1E/1/15	0.75	1	15	32		103	93	87	79	70	60	48	36
CRI4R-1E/1/18	0.75	1	18	32		121	109	102	92	80	68	56	40
CRI4R-1E/1.5/18	1.1	1.5	18	32		123	111	103	93	82	70	58	42
CRI4R-1E/1.5/20	1.1	1.5	20	32		140	126	117	105	92	80	62	45
CRI4R-1E/1.5/23	1.1	1.5	23	32		155	138	128	115	102	84	67	49
CRI4R-1E/1.5/26	1.1	1.5	26	32		163	143	132	120	105	88	69	50
CRI4R-1E/2/26	1.5	2	26	32		165	145	134	122	107	90	71	52
CRI4R-1E/2/35	1.5	2	35	32		240	214	195	181	162	136	98	57

* Marked pumpset are having ISI licence.

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts
Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24	Star Rating
					lps	0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	
CRI4R-2N/0.5/06*	0.37	0.5	6	32	Head in Metres	45	42	39	36	33	29	25	22	17	2
CRI4R-2N/0.75/08*	0.55	0.75	8	32		62	57	54	50	46	41	35	29	22	
CRI4R-2N/1/13*	0.75	1	13	32		95	86	80	74	67	58	49	41	31	3
CRI4R-2N/1.5/13	1.1	1.5	13	32		97	88	82	76	69	60	51	43	33	
CRI4R-2N/1.5/17*	1.1	1.5	17	32		125	115	108	100	92	80	70	57	45	
CRI4R-2N/1.5/19*	1.1	1.5	19	32		139	127	120	110	100	88	78	64	48	3
CRI4R-2N/2/17	1.5	2	17	32		127	117	110	102	94	82	72	59	47	
CRI4R-2N/2/19	1.5	2	19	32		141	129	122	112	102	90	80	66	50	
CRI4R-2N/2/23*	1.5	2	23	32		172	158	148	137	125	111	95	81	64	
CRI4R-2N/2/25*	1.5	2	25	32		181	165	156	144	132	117	100	81	63	3
CRI4R-2N/2/30*	1.5	2	30	32		218	196	182	167	153	136	113	92	71	
CRI4R-2N/3/25	2.2	3	25	32		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		3
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-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/5/60	3.7	5	60	32		458	410	386	361	327	296	250	200	150	
CRI4R-2/5/52*	3.7	5	52	40		387	353	332	309	282.5	251	215	176	132	
CRI4R-2N/6/60	4.5	6	60	32/40		459	426	401	368	329	298	251	201	151	
CRI4R-2N/6/70	4.5	6	70	32		531	486	453	424	383	345	293	235	175	
CRI4R-2/6/60	4.5	6	60	40		410	399	384	370	335	295	263	222		
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	

DISCHARGE

* Marked pumpset are having ISI licence.

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts
Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	1.44	1.8	2.16	2.52	2.88	3.24	3.6	3.96	4.32	Star Rating
					lps	0	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	
CRI4R-3/2/20	1.5	2	20	32	Head in Metres	168	143	135	125	114	101	87	72	58	44	
CRI4R-3/3/25	2.2	3	25	32		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	4
CRI4R-3/4/40	3	4	40	40		331	282	267	248	225	196	167	138	110	80	
CRI4R-3/5/50	3.7	5	50	40		417	353	332	304	273	241	204	169	134	97	
CRI4R-3/6/60	4.5	6	60	40		498	423	397	364	330	293	249	203	160	121	

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	1.80	2.16	2.52	2.88	3.24	3.60	4.32	5.04	Star Rating
					lps	0	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	
CRI4R-3E/1/05	0.8	1	5	32	Head in Metres	37	35	34	32	30	27	24	18	10	
CRI4R-3E/1/07*	0.75	1	7	32/40		54	50	49	47	45	43	40	31	24	2
CRI4R-3E/1/09*	0.75	1	9	32		69	64	62	59	57	52	48	39	30	5
CRI4R-3E/1/10*	0.75	1	10	32/40		75	64	62	59	56	53	50	42	17	5
CRI4R-3E/1.5/9	1.1	1.5	9	32		71	66	64	61	58	54	50	41	32	
CRI4R-3E/1.5/10	1.1	1.5	10	32		77	66	64	61	58	55	52	44	19	
CRI4R-3E/1.5/11*	1.1	1.5	11	32		87	82	80	77	74	71	67	52	36	5
CRI4R-3E/1.5/15*	1.1	1.5	15	32		109	94	91	87	83	78	71	56	38	4
CRI4R-3E/2/14*	1.5	2	14	32/40		112	103	99	96	92	88	82	67	50	
CRI4R-3E/2/11	1.5	2	11	32		89	84	82	79	76	73	69	54	38	
CRI4R-3E/2/15	1.5	2	15	32		110	95	92	88	84	79	72	57	39	
CRI4R-3E/2/17*	1.5	2	17	32		121	114	111	107	103	99	91	74	56	
CRI4R-3E/3/24*	2.2	3	24	32/40		182	171	167	162	157	148	138	120	86	3
CRI4R-3E/3/26 TR*	2.2	3	26	32/40		184	167	162	157	152	147	141	123	94	3
CRI4R-3E/5/40 TR*	3.7	5	40	32/40		301	272	264	254	240	222	200	152	113	3
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

* Marked pumpset are having ISI licence.

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts
Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	1.8	2.16	2.52	2.88	3.24	3.6	4.32	5.04
					lps	0	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4
CRI4R-3E/1/07S	0.75	1	7	32	Head in Metres	48	42	41	40	37	34	30	23	14
CRI4R-3E/1/10R	0.75	1	10	32		61.5	52.5	50	47	43.5	39	34	24	14.5

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	1.8	2.16	2.52	2.88	3.24	3.6	3.96	4.32	4.68	5.04	5.4	5.76	Star Rating
					lps	0	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	
GENIE4N/1/08*	0.75	1	8	32	Head in Metres	56.5	49	47.5	45.5	44	42	39.5	36.5	33	30	26.5	22.5	19	4
GENIE4N/1/10*	0.75	1	10	32		66	57	55.5	53	51	48.5	45.5	42	38	34	30	25.5	20.5	5
GENIE4N/1.5/12	1.1	1.5	12	32		81	71	68	65	63	60	56	51	47	42	37	32	26	
GENIE4N/1.5/15*	1.1	1.5	15	32		101	89	86	83	79.5	76	72	67	61	55	48.5	41.5	34.5	5
GENIE4N/2/20*	1.5	2	20	32		130	113	110	106	101	96	90	82.5	75	66	57.5	49.5	40	4
GENIE4N/2/25	1.5	2	25	32		164	144	139	134	128	121	113	104	94	83.5	72	61	48.5	
GENIE4N/3/30	2.2	3	30	32		205	180	175	169	162.5	155.5	146.5	136.5	125	112	98.5	85	69	
GENIE4N/4/35	3	4	35	32		239	210.5	205	197.5	189.5	180	169	158	143.5	128	112.5	96.5	79	
GENIE4N/4/40	3	4	40	32		270	236	228.5	220.5	211.5	201.5	191	176	160.5	144.5	126.5	107.5	88	
GENIE4N/5/50*	3.7	5	50	32		325	284	273	264	253	243	226	208	190	171	149	126	100	4
GENIE4N/6/60	4.5	6	60	32		386	338	326	314	302	285	264	244	223	200	174	146	118	
GENIE4N/7.5/60	5.5	7.5	60	32		387	339	327	315	303	286	265	245	224	201	174	147	119	
GENIE4N/7.5/70	5.5	7.5	70	32		455	403	389	373	356	336	313	289	261	231	200	169	132	

* Marked pumpset are having ISI licence.

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts
Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	3.24	3.60	4.32	5.04	5.76	6.48	7.20	7.92	Star Rating
					lps	0	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	
CRI4R-5/1/07*	0.75	1	7	32/40	Head in Metres	50	43	41	38	34	29	24	17	10	5
CRI4R-5/1.5/09*	1.1	1.5	9	40		64	56	54	50	45	38	32	26	18	4
CRI4R-5/1.5/10	1.1	1.5	10	40		71	59	56	52	46	39	31	21	12	
CRI4R-5/2/9	1.5	2	9	40		66	58	56	52	47	40	34	28	20	
CRI4R-5/2/10*	1.5	2	10	40/50		73	65	63	59	53	47	39	28	19	
CRI4R-5/2/12*	1.5	2	12	40/50		87	76	74	69	63	56	45	33	21	
CRI4R-5/3/12	2.2	3	12	50		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		4
CRI4R-5/5/27*	3.7	5	27	40/50		192	169	164	153	138	121	99	75		3
CRI4R-5/5/32*	3.7	5	32	40		215	177	173	161	141	118	97	77		3

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	2.88	3.24	3.60	4.32	5.04	5.76	6.48	7.20	7.92	8.64	9.36	Star Rating
					lps	0	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				3
CRI4R-5E/7.5/56	5.5	7.5	56	40		335	293	286	279	261								

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	2.88	3.24	3.6	4.32	5.04	5.76	6.48	7.2	7.92	8.64
					lps	0	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 pumpset are having ISI licence.

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts
Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/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
					lps	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-7/1.5/10	1.1	1.5	10	40	Head in Metres	69	60	59	58	55	52	48	43	39	34	29	24	
CRI4R-7/2/10	1.5	2	10	40/50		71	62	61	60	57	54	50	45	41	36	31	26	
CRI4R-7/2/12	1.5	2	12	40/50		85	75	74	72	69	66	62	57	51	46	40	34	
CRI4R-7/3/20	2.2	3	20	40		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-7/6/30	4.5	6	30	40/50		204	179	175	171	165	154	144	131	119	106	91	76	
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^3/hr	0	4.32	5.04	5.76	7.20	7.92	9.36	10.80	Star Rating
					lps	0	1.2	1.4	1.6	2.0	2.2	2.6	3.0	
CRI4R-8/2/08	1.5	2	8	50	Head in Metres	58	50	48	45	39	36	28	21	
CRI4R-8/2/09*	1.5	2	9	40/50		66	60	59	56	52	47	35	25	3
CRI4R-8/3/12	2.2	3	12	50		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	2
CRI4R-8/5/14	3.7	5	14	50		104	92	89	85	73	66	53	39	
CRI4R-8/5/17*	3.7	5	17	50		124	107	103	99	85	78	62	41	3
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	

* Marked pumpset are having ISI licence.

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts
Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	5.40	7.20	9.00	10.80	12.60	14.40	16.20
					lps	0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
CRI4M-8E/2/8	1.5	2	8	50	Head in Metres	51	44	39	32	25	17		
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		

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	7.92	10	12	14	15.85	18	20
					lps	0	2.2	2.78	3.33	3.89	4.4	5	5.56
CRI4M-14/2/07	1.5	2	7	50	Head in Metres	36	32	27	23.5	18.5	14	8	
CRI4M-14/3/07	2.2	3	7	50		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
CRI4P-14/3/10	2.2	3	10	50		59	49	45	40	34	29	22	15
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

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	12.6	14.4	16.2	18.0	19.8	21.6	23.4	25.2
					lps	0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
CRI4P-20/2/06	1.5	2	6	65	Head in Metres	38	28	26	24	22	19	17	14	11
CRI4P-20/3/06	2.2	3	6	65		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

* Marked pumpset are having ISI licence.

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts
Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - GENIE Series

MIXED FLOW

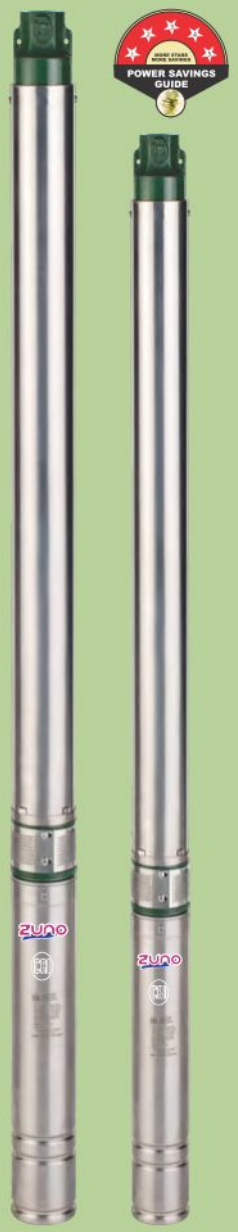
Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	12.6	14.4	16.2	18	19.8	21.6	23.4	25.2
					lps	0	3.5	4	4.5	5	5.5	6	6.5	7
CRI4M-20/2/06	1.5	2	6	65	Head in Metres	34	26	25	24	23	21	19	15	15
CRI4M-20/3/06	2.2	3	6	65		36	28	27	26	25	23	21	17	17
CRI4M-20/3/07	2.2	3	7	65		41	32	31	29	28	25	24	22	20
CRI4M-20/3/08	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

MATERIAL OF CONSTRUCTION - MOTOR

Part Name	Material
Shaft seal	Nitrile butyl rubber
Rotor Shaft	SS 410 / 431
Stator Shell	SS 304 / SS 202
Journal bushes	Carbon
Snap ring	SS 316
Thrust assembly	SS 420 & Graphite Carbon
Diaphragm	High Nitrile butyl rubber
Motor base	Cast iron

MATERIAL OF CONSTRUCTION - PUMP

Part Name	Material
Suction housing	Cast iron / SS
Impeller	Noryl / Delrin
Diffuser chamber	SS 304 / Cast Iron / Noryl
Check valve housing	Cast iron
Check valve	Delrin
Outer shell	SS 304 / SS 202
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



100mm Borewell Submersible Pumpset - ZUNO Series

C.R.I. Zuno 100 mm Borewell submersible motors are pre-filled with non-toxic liquid for best performance in low voltage and high efficiency. 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 durable and hygiene • High operating efficiency • Specially designed angular contact bearing to withstand high axial thrust load • Easy removal of stator ensures service feasibility • Designed for wide voltage operation • Non-toxic pre filled liquid motor ensures low voltage performance.

APPLICATION

• Rural water supply • Sprinkler system • Pressure boosting units • Fire fighting system • Fountains.

SPECIFICATIONS

	100MM ZUNO
Power range	0.37 kW - 2.2 kW (0.5 HP - 3 HP)
Speed	2850 RPM
Version	Single phase 220-240V; Three phase 380-415V, 50Hz, A.C. Supply
Maximum head	240 metre
Maximum flow rate	7 LPS (25.2 m^3/hr)
Maximum outer diameter	98 mm
Thrust load	0.37kW - 0.75kW - 650 lbs; 1.1kW - 1.5kW - 1000 lbs;
Minimum cooling flow along the motor	0.15 m/sec
Method of starting	Capacitor Start Capacitor Run (CSCR) / Capacitor Start & Run (CSR)
Maximum starts per hour	20 times
Nominal outlet size	32, 40 & 50 mm

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts
Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - ZUNO Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.72	1.08	1.44	1.80	2.16	2.52	2.88	Star Rating
					lps	0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	
CRI4F-1F/0.5/07*	0.37	0.5	7	32	Head in Metres	59	55	52	47	40	31	17		
CRI4F-1F/1/16*	0.75	1	16	32		129	125	121	106	84	56	34	18	4

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.72	1.08	1.44	1.8	2.16	2.52	2.88
					lps	0	0.2	0.3	0.4	0.5	0.6	0.7	0.8
CRI4F-2/1/08	0.75	1	8	32	Head in Metres	68	65	63	61	57	50	44	36

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	1.44	1.80	2.16	2.52	2.88	3.24	3.60	4.32	Star Rating
					lps	0	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	
CRI4F-3/1.5/14*	1.1	1.5	14	32	Head in Metres	110	102	98	94	90	85	77	67	44	4

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24	Star Rating
					lps	0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	
CRI4R-2N/0.5/06*	0.37	0.5	6	32	Head in Metres	45	42	39	36	33	29	25	22	17	5
CRI4R-2N/0.75/08*	0.55	0.75	8	32		62	57	54	50	46	41	35	29	22	5
CRI4R-2/1/13	0.75	1	13	32		92	88	84	80	72	64	56	48	39	
CRI4R-2N/1/13*	0.75	1	13	32		95	86	80	74	67	58	49	41	31	4
CRI4R-2N/1.5/13	1.1	1.5	13	32		97	88	82	76	69	60	51	43	33	
CRI4R-2N/1.5/17*	1.1	1.5	17	32		125	115	108	100	92	80	70	57	45	3
CRI4R-2N/1.5/19*	1.1	1.5	19	32		139	127	120	110	100	88	78	64	48	3
CRI4R-2N/2/19	1.5	2	19	32		141	129	122	112	102	90	80	66	50	
CRI4R-2N/2/23*	1.5	2	23	32		172	158	148	137	125	111	95	81	64	3
CRI4R-2N/2/25*	1.5	2	25	32		183	167	158	146	134	119	102	83	65	4
CRI4R-2N/2/30	1.5	2	30	32		220	198	184	169	155	138	115	94	73	
CRI4R-2N/2/32	1.5	2	32	32		241	224	210	194	178	160	139	115	88	

DISCHARGE

* Marked pumpset are having ISI licence.

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts
Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - ZUNO Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	1.80	2.16	2.52	2.88	3.24	3.60	4.32	5.04	Star Rating
					lps	0	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	
CRI4R-3E/0.75/05*	0.55	0.75	5	32	Head in Metres	37	35	34	32	30	27	24	18	10	5
CRI4R-3E/1/05	0.75	1	5	32		37	35	34	32	30	27	24	18	10	
CRI4R-3E/1/07*	0.75	1	7	32		54	50	49	47	45	43	40	31	24	5
CRI4R-3E/1/09*	0.75	1	9	32		71	66	64	61	58	54	50	41	32	5
CRI4R-3E/1/10*	0.75	1	10	32		77	66	64	61	58	55	52	44	19	5
CRI4R-3E/1.5/07	1.1	1.5	7	32		54	50	49	47	45	43	40	31	24	
CRI4R-3E/1.5/10	1.1	1.5	10	32		77	66	64	61	58	55	52	44	19	
CRI4R-3E/1.5/11*	1.1	1.5	11	32		89	84	82	79	76	73	69	54	38	4
CRI4R-3E/1.5/15*	1.1	1.5	15	32		109	94	91	87	83	78	71	56	38	5
CRI4R-3E/2/14	1.5	2	14	32		112	103	99	96	92	88	82	67	50	
CRI4R-3E/2/15	1.5	2	15	32		110	95	92	88	84	79	72	57	39	
CRI4R-3E/2/16	1.5	2	16	32		125	118	115	112	106	99	93	77	59	
CRI4R-3E/2/17	1.5	2	17	32		121	114	111	107	103	99	91	74	56	
CRI4R-3E/3/24	2.2	3	24	32		182	171	167	162	157	148	138	120	86	

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	3.24	3.60	4.32	5.04	5.76	6.48	7.20	7.92	Star Rating
					lps	0	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	
CRI4R-5/1/07*	0.75	1	7	32/40	Head in Metres	50	43	41	38	34	29	24	17	10	5
CRI4R-5/1.5/09*	1.1	1.5	9	40		66	58	56	52	47	40	34	28	20	4
CRI4R-5/2/10*	1.5	2	10	50		73	65	63	59	53	47	39	28	19	
CRI4R-5/2/12	1.5	2	12	40/50		87	76	74	69	63	56	45	33	21	
CRI4R-5/3/15	2.2	3	15	40		111	97	95	89	82	71	59	45	30	
CRI4R-5/3/18	2.2	3	18	40/50		132	116	113	104	95	85	71	53	35	

* Marked pumpset are having ISI licence.

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts
Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - ZUNO Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	2.88	3.24	3.6	4.32	5.04	5.76	6.48	7.2	7.92	8.64	9.36
					lps	0	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6
CRI4R-7/3/20	2.2	3	20	40/50	Head in Metres	141	124	122	119	114	108	102	94	85	76	66	55

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	4.32	5.04	5.76	7.2	7.92	9.36	10.8
					lps	0	1.2	1.4	1.6	2.0	2.2	2.6	3.0
CRI4R-8/2/8	1.5	2	8	50	Head in Metres	58	50	48	45	39	36	28	21
CRI4R-8/3/12	2.2	3	12	50		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

DISCHARGE

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	7.92	10	12	14	15.85	18	20
					lps	0	2.2	2.78	3.33	3.89	4.5	5.0	5.56
CRI4M-14/3/10	2.2	3	10	50	Head in Metres	57.5	46	41.5	35	28.5	22.5	15.5	17

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	12.6	14.4	16.2	18.0	19.8	21.6	23.4	25.2
					lps	0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
CRI4M-20/2/6	2.2	2	6	65	Head in Metres	34	26	25	24	23	21	19	15	15
CRI4M-20/3/7	2.2	3	7	65		41	32	31	29	28	25	24	22	20

DISCHARGE

* Marked pumpset are having ISI licence.

PERFORMANCE CHART

2850 RPM - At Rated Voltage - Single Phase - 220 Volts
Three Phase - 380 Volts, 50Hz, A.C. Supply.

100mm BOREWELL SUBMERSIBLE PUMPSET - ZUNO Series

MATERIAL OF CONSTRUCTION - MOTOR	
Part Name	**Material**
Shaft seal	Nitrile butyl rubber / Mechanical seal
Rotor shaft	SS 410 / SS 431
Stator shell	SS 304
Bearing	SS Ball Bearing & SS Angular contact bearing
Diaphragm	High Nitrile Butyl rubber

MATERIAL OF CONSTRUCTION - PUMP	
Part Name	**Material**
Suction housing	Cast iron
Impeller	Noryl / Delrin
Diffuser chamber	Cast Iron / Noryl / SS 304
Pump shaft	SS 410 / SS 431 / SS 304
Check valve housing	Cast iron
Check valve	Delrin
Outer shell	SS 304
Counter thrust pad	SS 304 / Hylem
Intermediate bearing (Sleeve / Bush)	SS 304 / NBR / LTB 4 (Gun metal with rubber)
Coupling	SS 304 / 410

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 • Extremely hard wearing water lubricated bush bearing (or) double sealed ball bearing • Designed for wide voltage operation • Non-toxic liquid filled motor to ensure the low voltage performance • 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	100MM STEELIX
Power range	0.37 kW - 7.5 kW (0.5HP - 10HP)
Speed	2850 RPM
Version	Single phase 220V, Three phase 380 - 415V, 50Hz, A.C. Supply
Maximum total head	601 Metre
Maximum flow rate	5 LPS (18 m^3/hr)
Minimum cooling flow along the motor	0.15 m /sec
Method of starting	Capacitor Start Capacitor Run (CSCR) / Direct Online (DOL) / Star Delta (SD)
Maximum starts per hour	20 times
Nominal outlet size	32, 40 & 50mm

PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 230 Volts

Three Phase 380 - 415 Volts, 50 Hz, A.C. Supply

100mm BOREWELL SUBMERSIBLE PUMPSET - STEELIX 4 Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.7
					lps	0	0.11	0.16	0.22	0.27	0.33	0.38	0.44	0.47
WA4AS-1/0.5/14	0.37	0.5	14	32	Head in Metres	80	71	65	58	49	39	29	18	13
WA4AS-1/1.5/36	1.1	1.5	36	32		198	182	165	145	123	102	80	54	41
WA4AS-1/2/50	1.5	2	50	32		280	250	226	199	170	140	106	70	51

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.6	1.0	1.4	1.8	2.0	2.2	2.6
					lps	0	0.16	0.27	0.38	0.50	0.55	0.61	0.72
WA4AS-2/0.5/9	0.37	0.5	9	32	Head in Metres	52	47	43	38	33	28	23	17
WA4AS-2/1/18	0.75	1	18	32		118	113	100	90	78	70	61	48
WA4AS-2/1.5/18	1.1	1.5	18	32		120	115	102	92	80	72	63	50
WA4AS-2/1.5/23	1.1	1.5	23	32		145	140	128	113	93	82	71	57
WA4BS-2/2/23	1.1	2	23	32		146	141	129	114	94	83	72	58
WA4BS-2/2/28	1.5	2	28	32		180	172	160	142	121	110	98	77
WA4BS-2/2/33	1.5	2	33	32		215	199	183	165	140	124	108	82
WA4BS-2/3/40	2.2	3	40	32		249	232	218	195	165	144	127	92

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
					lps	0	0.41	0.55	0.69	0.83	0.97	1.11	1.25
WA4AS-3/0.75/9	0.55	0.75	9	32	Head in Metres	52	50	48	46	40	33	25	13
WA4AS-3/1/9	0.75	1	9	32		54	52	50	48	42	35	27	15
WA4AS-3/1/12*	0.75	1	12	32		75	69	65	60	54	45	33	20
WA4AS-3/1.5/18	1.1	1.5	18	32		108	104	100	93	84	71	50	32
WA4BS-3/2/25	1.5	2	25	32		168	159	148	134	117	99	74	45
WA4BS-3/3/29	2.2	3	29	32		190	181	170	159	140	117	90	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
WA4BS-3/7.5/90	5.5	7.5	90	32		575	517	492	456	411	342	270	165
WA4BS-3/10/100	7.5	10	100	32		601	535	508	465	403	342	295	205

PERFORMANCE CHART

2850 RPM, At Rated Voltage – Single Phase 230 Volts
Three Phase 380 - 415 Volts, 50 Hz, A.C. Supply

100mm BOREWELL SUBMERSIBLE PUMPSET - STEELIX 4 Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	2	3	4	5	6	7
					lps	0	0.55	0.83	1.10	1.39	1.66	1.94
WA4AS-5/1/8*	0.75	1	8	40	Head in Metres	46	43	40	37	32	23	15
WA4AS-5/1.5/12	1.1	1.5	12	40		75	71	65	57	48	38	24
WA4BS-5/2/17	1.5	2	17	40		108	94	88	80	68	51	33
WA4BS-5/3/25	2.2	3	25	40		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^3/hr	0	3	4	5	6	7	8	9	10	11	12	14	16	18
					lps	0	0.83	1.11	1.39	1.66	1.94	2.22	2.50	2.78	3.05	3.33	3.89	4.44	5
WA4BS-8/1/5	1.1	1	15	50	Head in Metres	32	27	25	23	22	20	18	16	13	11				
WA4BS-8/3/12	1.5	3	12	50		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				
WA4BS-14/10/25	7.5	10	25	50		161		156		152		145		137		125	110	91	68

MATERIAL OF CONSTRUCTION - 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

MATERIAL OF CONSTRUCTION - 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 Borewell Submersible Pumpset - NILE+ 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

	125 MM / 100 MM NILE+
Power range	3.7 kW – 7.5 kW (5 HP to 10 HP)
Speed	2850 RPM
Version	Three phase 380 – 415V, 50Hz, A.C. Supply
Maximum total head	650 Metre
Maximum flow rate	3 LPS (10.8 m^3/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)
Maximum starts per hour	20 times
Nominal outlet size	32 & 40 mm

PERFORMANCE CHART

2850 RPM, At Rated Voltage – 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^3/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		442	410	391	370	343	307	262	211	
CRI4R-2/7.5/75	5.5	7.5	75	40		544	504	483	459	428	378	310	241	

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/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		335	318	310	298	284	268	252	210	
CRI4R-3E/7.5/54	5.5	7.5	54	40		427	371	358	343	327	308	284	222	

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/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		650	572	553	527	493	458	425	356	284	179	

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	2.88	3.24	3.60	4.32	5.04	5.76	6.48	7.20	7.92
					lps	0	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2
CRI4R-5E/5/37	3.7	5	37	40	Head in Metres	221	200	196	193	182	168	152	132	112	
CRI4R-5E/6/45	4.5	6	45	50		263	232	229	225	209	186	167	144	121	94
CRI4R-5E/7.5/56	5.5	7.5	56	40		325	277	270	263	246					

DISCHARGE

PERFORMANCE CHART

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

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

RADIAL FLOW

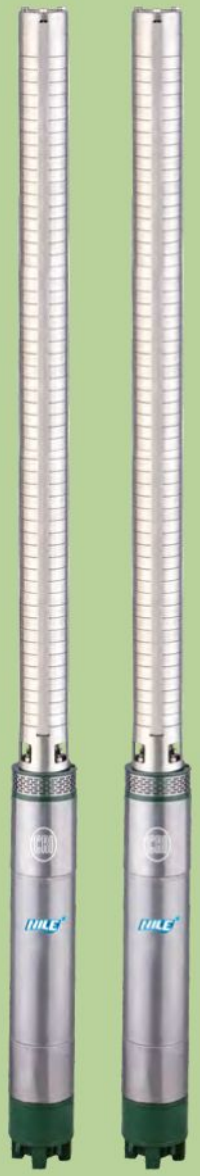
Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	4.32	5.04	5.76	7.20	7.92	9.36	10.80
					lps	0	1.2	1.4	1.6	2.0	2.2	2.6	3.0
CRI4R-8/7.5/34	5.5	7.5	34	40	Head in Metres	244	216	210	201	176	160	127	91

DISCHARGE

MATERIAL OF CONSTRUCTION - 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

MATERIAL OF CONSTRUCTION - 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/100mm SS Borewell Submersible Pumpsets - NILE+ Series



C.R.I. Nile+ Series 125/100mm Fully Stainless steel Borewell Submersible pumps 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. These pumps are of multistage centrifugal type, which is powered by water filled, rewindable submersible motor suitable for continuous duty. 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	125 / 100 MM NILE+
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	2 lps (7 m3/h)
Maximum outer diameter	121 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 mm

PERFORMANCE CHART

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

125MM/100MM SS BOREWELL SUBMERSIBLE PUMPSETS - NILE+ SERIES

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	0.58	0.97	1.37	1.80	1.98	2.20	2.59
					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

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/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		320	295	280	263	240	207	160	97
WCLAS-3/5/60	3.7	5	60	32		377	337	320	300	270	230	180	110
WCLAS-3/12.5/120	9.3	12.5	120	32		780	705	670	630	580	500	410	275

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/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-5/7.5/60	5.5	7.5	60	40		360	322	300	262	236	190	130
WCLAS-5/10/75	5..5	10	75	40		487	427	392	352	302	237	168
WCLAS-5/12.5/95	9.3	12.5	95	40		620	545	510	470	410	340	240

DISCHARGE

MATERIAL OF CONSTRUCTION - MOTOR

Part Name	Material
Upper & Lower Housing	Cast Iron
Upper & Lower Housing Shell	SS 304
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



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

	125 MM NILE
Power range	2.2 kW to 7.5 kW (3 HP to 10 HP)
Speed	2850 RPM
Version	Three phase 380 – 415V; 50Hz AC Supply
Maximum total head	83 Metre
Maximum flow rate	12.5 LPS (45 m^3/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

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	8	12	16	20	22	24	26	28	30	32	34	MIXED FLOW 36	38
					lps	0	2.22	3.33	4.44	5.55	6.11	6.66	7.22	7.77	8.33	8.88	9.44	10	10.55
CRI5M-22/3/6	2.2	3	6	80	Head in Metres	55	50	47.5	44.5	41	39	37	35	32	29	26	22	17	13
CRI5M-25/3/5	2.2	3	5	80		49	44.5	42	39	36.5	35	33.5	31.5	30	27	24	21	17	14
CRI5M-25/5/8	3.7	5	8	80		75	68.5	64	59.5	54.5	52	49.5	45.5	42	38	34	28.5	22	17
CRI5M-25/5/8 SPL	3.7	5	8	80		69	62.5	59	54.5	50.5	47	44	40.5	37	32.5	28	22	16	10

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	5	10	15	20	25	27	30	35	40	45
					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		31	29	26	25	22	21	20	19	17	14	9
CRI5M-27/5/5	3.7	5	5	80		37	34	32	30	27	25	24	23	20	15	11
CRI5M-27/6/6	4.5	6	6	80		45	42	39	36	33	31	30	29	25	21	15
CRI5M-27/7.5/8	5.5	7.5	8	80		60	57	53	49	45	42	41	39	35	29	21

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	8	12	16	20	24	28	32	36	38	40
					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
CRI5M–28/6/5	4.5	6	5	80		52	48	45	43	41	39	36	32	22	19	14
CRI5M–28/7.5/6	5.5	7.5	6	80		63	58	54	51	48	45	41	34	24	21	16
CRI5M–28/10/8	7.5	10	8	80		83	76	72	68	65	61	57	53			

DISCHARGE

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^3/hr	0	5	10	15	20	25	27	30	35	40	45
					lps	0	1.4	2.8	4.2	5.6	6.9	7.5	8.3	9.7	11.1	12.5
CRI5M–30/5/3	3.7	5	3	80	Head in Metres	30	28.5	27	25.5	23.5	22.5	21.5	20.5	161	1.5	5.5
CRI5M–30/6/4	4.5	6	4	80		40	38	36	34	32	30	29	27	21.5	14	6
CRI5M-30/7.5/5	5.5	7.5	5	80		50	48	46	43	40	38	37	35	28	19	8.5
CRI5M–30/10/6	7.5	10	6	80		60	57.5	55	51.5	48	45.5	44	40.5	32.5	22	10

DISCHARGE

MATERIAL OF CONSTRUCTION - MOTOR	
Part Name	**Materials**
Upper & Lower Housing	Cast Iron
Stator Shell	SS 304
Rotor	Copper Rotor / Aluminium 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 NXT 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

• Coupling suitable for universal compatibility • 100% Copper rotor with silver brazing design* • T-Bolt design motor ensures rigid construction • Optimized hydraulic design for efficient performance• 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	150 MM DELMA NXT
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^3/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	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^3/hr	0	3.6	4.5	5.4	6.3	7.2	8.1	9	9.9	10.8	11.7	12.6	13.5
					lps	0	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5	3.75
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		120	112.5	110	108	105	101.5	96	88.5	82	73.5	63.5	52	41.5
WC6BL-8/7.5/18	5.5	7.5	18	50		190	179	175	171	165	159	148	134	116	97.5	77	53.5	30

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	2.7	3.6	4.7	5.4	7.2	9	10.8	12.6	14.4	16.2	18	19.8	21.6
					lps	0	0.75	1	1.3	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
WC6BL-10/3/06	2.2	3	6	50	Head in Metres	72	69	67	64.5	63	58	50	38	25	10				
WC6BL-14/3/05	2.2	3	5	50		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-16/3/04	2.2	3	4	65		45		44.5	44	43.5	43	42.5	41.5	39.5	36	33	28.5	24	18.5

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18	19.8	21.6	23.4	25.2
					lps	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

DISCHARGE

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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	2	4	6	8	10	12	13.5
					lps	0	0.55	1.11	DISCHARGE 1.66	2.22	2.77	3.33	3.75
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^3/hr	0	5	10	15	20	21.5
					lps	0	1.38	DISCHARGE 2.77	4.16	5.55	5.97
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^3/hr	0	2.7	3.6	4.7	5.4	7.2	9	10.8	12.6
					lps	0	0.75	1	1.3	DISCHARGE 1.5	2	2.5	3	3.5
S6G-8/3/10*	2.2	3	10	50	Head in Metres	98	88	83	77	72	60	39		
S6G-8/6/20*	5.5	6	20	50		197	177	167	165	154	120	88		
S6G-8/7.5/30	5.5	7.5	30	50		278	257	255	245	228	180	120		
S6G-8/7.5/33	5.5	7.5	33	50		274	254	250	243	228	182	123		
S6G-8/12.5/40	9.3	12.5	40	50		391	361	352	339	323	275	198		
S6G-09/3/8*	2.2	3	8	50		81		77	74	72	63	52	39	25
S6G-09/5/12*	3.7	51	2	50		121		112	111	110	102	86	63	36

NOTE : S6R - 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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	5.4	7.2	9	10.8	12.6	14.4	16.2
					lps	0	1.5	2	2.5	3	3.5	4	4.5
S6G-11/3/6*	2.2	3	6	50	Head in Metres	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
S6G-11/15/30	11	15	30	50		333	276	274	268	230	182	122	54

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	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
S6G-14/3/5*	2.2	3	5	50	Head in Metres	59	53	50	47	42	34	23	11
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
S6G-14/7.5/12*	5.5	7.5	12	50		127	120	115	109	96	84	70	47
S6G-14/15/25*	11	15	25	50		261	250	237	220	194	165	122	88
S6G-14/17.5/30	11	17.5	30	50		349	310	293	272	242	202	152	107

DISCHARGE

* 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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/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	
SR61/7.5/8 - H	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
SR61/25/25	18.5	25	25	50		263	249	242	234	228	220	210	197	165	145	117	90

DISCHARGE

* Marked pumpsets are having ISI licence. | DV - Dual Voltage | 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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	9	10.8	12.6	14.4	16.2	18	19.8	21.6
					lps	0	2.5	3	3.5	4	4.5	5	5.5	6
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
SR62/5/08 SPL	3.7	5	8	50		90	74	69	64.5	59.5	54	48.5	40.5	31
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
SR62/7.5/10 - H	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
SR62/10/12 - H	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

DISCHARGE

* Marked pumpsets are having ISI licence. | DV - Dual Voltage | 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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	7.2	9	10.8	12.6	14.4	16.2	18	Star Rating
					Ips	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*	3.7	5	8	50		90	86	82	76	68	57	46	35	2
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	2
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	

DISCHARGE

* 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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	5.4	7.2	9	10.8	12.6	14.4	16.2	Star Rating
					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
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	2
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	2
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	2
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	
SR65/25/50	18.5	25	50	50		516	460	450	405	323	256	222	95	

DISCHARGE

* 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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	3.6	4.7	5.4	7.2	9	10.8	12.6	Star Rating
					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	3
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	2
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
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	2
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	

DISCHARGE

* 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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	2.7	3.6	4.7	5.4	7.2	9	Star Rating
					lps	0	0.75	1	DISCHARGE 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
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	
SR67/5/20 SPL	3.7	5	20	50		197	177	167	162	154	120	88	
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	
SR67/7.5/23	5.5	7.5	23	50		222	209	205	200	190	160	110	
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	
SR67/7.5/30	5.5	7.5	30	50		278	257	255	245	228	180	120	
SR67/10/30*	7.5	10	30	50		282	262	258	250	235	188	127	
SR67/10/33	7.5	10	33	50		322	290	287	270	254	204	145	
SR67/12.5/40	9.3	12.5	40	50		391	361	352	339	323	275	198	

* 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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	2.7	3.6	4.68	5.4	6.48	7.2	8.28	9	10.08	Star Rating
					lps	0	0.75	1	1.3	1.5	1.8	2	2.3	2.5	2.8	
CRI6R-08/3/10C	2.2	3	10	50	Head in Metres	108	97.5	94	90	87	83	79	69	60	42	
CRI6R-08/5/15C	3.7	5	15	50		161	142	139	134	130	121.5	113.5	98.5	83	61	
CRI6R-08N/7.5/24*	5.5	7.5	24	50		269	255	250	244	239.5	225	215	195	180	144	4
CRI6R-08/7.5/24C	5.5	7.5	24	50		269	255	250	244	239.5	225	215	195	180	144	
CRI6R-08/10/30C	7.5	10	30	50		336	319	312	305	299	281	269	244	225	180	

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	3.6	4.68	5.4	7.2	8.28	9	10.8	12.6	Star Rating
					lps	0	1	1.3	1.5	2	2.3	2.5	3	3.5	
CRI6R-9/3/08C	2.2	3	8	50	Head in Metres	93	90	88	86.5	81	76	71	56	36	
CRI6R-09N/5/12*	3.7	5	12	50		132	122	119	117	112	107	102	81	56	4
CRI6R-09/5/12*	3.7	5	12	50		132	122	119	117	112	107	102	81	56	3
CRI6R-9/5/12C	3.7	5	12	50		132	122	119	117	112	107	102	81	56	
CRI6R-9N/7.5/18*	5.5	7.5	18	50		201	191	188	186	181	172	165.5	139	96	4
CRI6R-9/7.5/18C	5.5	7.5	18	50		201	191	188	186	181	172	165.5	139	96	
CRI6R-09N/7.5/20*	5.5	7.5	20	50		220	208	204.5	202	188	179	169	141	101	4
CRI6R-9/7.5/20C	5.5	7.5	20	50		220	208	204.5	202	188	179	169	141	101	
CRI6R-9/10/24C	7.5	10	24	50											
CRI6R-09N/12.5/30*	9.3	12.5	30	50		297	287	277	268	236		191	136	73	4
CRI6R-9/12.5/30C	9.3	12.5	30	50		297	287	277	268	236		191	136	73	
CRI6R-9/15/38C	11	15	38	50		387	356	353	350	313		260	200	142	

DISCHARGE

'C' denoted models are 12.2 Meter (40 feet) per stage working capacity.

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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	3.6	5.4	7.2	9	10.8	12.6	14.4	16.2	Star Rating
					lps	0	1	1.5	2	2.5	3	3.5	4	4.5	
CRI6R-11/3/06C	2.2	3	6	50	Head in Metres	71	68	67	66	61.5	56	47	36	22	
CRI6R-11N/5/10*	3.7	5	10	50		115	108	106	102	97	87	78	54	31	4
CRI6R-11/5/10*	3.7	5	10	50		115	108	106	102	97	87	78	54	31	3
CRI6R-11/5/10C	3.7	5	10	50		115	108	106	102	97	87	78	54	31	
CRI6R-11N/7.5/16*	5.5	7.5	16	50		187	179	176	167	156	141	112	81	41	4
CRI6R-11/7.5/16*	5.5	7.5	16	50		187	179	176	167	156	141	112	81	41	3
CRI6R-11/7.5/16C	5.5	7.5	16	50		187	179	176	167	156	141	112	81	41	
CRI6R-11/10/20*	7.5	10	20	50		235	225	222	212	198	177	145	101	52	3
CRI6R-11/10/20C	7.5	10	20	50		235	225	222	212	198	177	145	101	52	

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	5.4	7.2	9	10.8	12.6	14.4	16.2	18	Star Rating
					lps	0	1.5	2	2.5	3	3.5	4	4.5	5	
CRI6R-14/3/5*	2.2	3	5	50	Head in Metres	59	56	54.5	52.5	50.5	46	41	33	24	3
CRI6R-14/3/05C	2.2	3	5	50		59	56	54.5	52.5	50.5	46	41	33	24	
CRI6R-14/5/08*	3.7	5	8	50		92	88	85	82	79	74	69	56	46	3
CRI6R-14N/5/08*	3.7	5	8	50		92	88	85	82	79	74	69	56	46	4
CRI6R-14/5/08C	3.7	5	8	50		92	88	85	82	79	74	69	56	46	
CRI6R-14N/7.5/12SD*	5.5	7.5	12	50		139	131	126	122	115	106	91	74	53	4
CRI6R-14/7.5/12SD*	5.5	7.5	12	50		139	131	126	122	115	106	91	74	53	3
CRI6R-14/7.5/12C	5.5	7.5	12	50		139	131	126	122	115	106	91	74	53	
CRI6R-14/10/14*	7.5	10	14	50		165	156	153	148	141	131	116	92	66	3
CRI6R-14/10/14C	7.5	10	14	50		165	156	153	148	141	131	11	69	26	
CRI6R-14/10/16*	7.5	10	16	50		183	171	166	161	151	138	119	94	68	3
CRI6R-14/10/16C	7.5	10	16	50		183	171	166	161	151	138	119	94	68	
CRI6R-14/20/30*	15	20	30	50		351	328	321	308	292	266	233	187	133	3
CRI6R-14/20/30C	15	20	30	50		351	328	321	308	292	266	233	187	133	

DISCHARGE

'C' denoted models are 12.2 Meter (40 feet) per stage working capacity.

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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	7.2	9	10.8	12.6	14.4	16.2	18	19.8	21.6	Star Rating
					lps	0	2	2.5	3	3.5	4	4.5	5	5.5	6	
CRI6R-18/5/6*	3.7	5	6	50	Head in Metres	73	70	69	67.5	65.5	62.5	59	53	47.5	40	3
CRI6R-18/5/6C	3.7	5	6	50		73	70	69	67.5	65.5	62.5	59	53	47.5	40	
CRI6R-18/7.5/10SD*	5.5	7.5	10	50		119	110	107.5	105	103	100.5	94	87	77	65	3
CRI6R-18N/7.5/10*	5.5	7.5	10	50		119	110	107.5	105	103	100.5	94	87	77	65	4
CRI6R-18/7.5/10C	5.5	7.5	10	50		119	110	107.5	105	103	100.5	94	87	77	65	
CRI6R-18/10/12*	7.5	10	12	50		145	135	133	130	125.5	121	113.5	104	91	76	3
CRI6R-18/10/12C	7.5	10	12	50		145	135	133	130	125.5	121	113.5	104	91	76	

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	10.8	12.6	14.4	16.2	18	19.8	21.6	23.4	25.2	27	28.8	Star Rating
					lps	0	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		3
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		3
CRI6R-22/7.5/8 SD*	5.5	7.5	8	50		90	82	80	79	77	73	64	62	53	52	37		3
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	3
CRI6R-22/12.5/12*	9.3	12.5	12	50		135	121	118	115	112	107	102	92	86	60	58	48	3
CRI6R-22/15/15*	11	15	15	50		169	149	148	143	139	131	117	115	100	85	60		3
CRI6R-22/20/20*	15	20	20	50		229	215	211	202	194	180	163	149	126	115	100	70	3
WC6BA-22/25/25	18.5	25	25	50		263	249	242	234	228	220	210	197	165	145	117	90	
CRI6R-22/20/20C	15	20	20	50		242	223	217	208	201	185	165	141	116	90			

DISCHARGE

'C' denoted models are 12.2 Meter (40 feet) per stage working capacity.

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 NXT Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	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
					lps	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
SM60/3/03C	2.2	3	3	65	Head in Metres	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
SM60/5/06 SPL	3.5	5	6	65/80		50	46	45	44	43	42.5	42	41	39	38	36	35	33	31	29	27	24	22	19
SM60/5/08S	3.7	5	8	65		70	63.5	62.5	61	60	58.5	57.5	55.5	54	52	49	46	44	41	37	33	29	25	21
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
SM60/7.5/7*	5.5	7.5	7	65		68	60	59	58	57	57	55	53	52	50	48	41	37	34	30	27	24		
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

DISCHARGE

* 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 NXT Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	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	46.8
					lps	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	Head in Metres	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		

DISCHARGE

* 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 NXT Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m³/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
					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
SM61N/25/20	18.5	25	20	80	Head in Metres	224	210	190	170	163	160	140	120	100	80	60	40	20

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m³/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
					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
SM61N/30/25	22	30	25	80	Head in Metres	281	274	260	241	220	200	180	160	150	140	121	100	80	60	30

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	21.6	25.2	28.8	32.4	34.2	36	37.8	39.6	43.2	46.8
					lps	0	6	7	8	9	9.5	10	10.5	11	12	13
SM62/5/03C	3.7	5	3	80	Head in Metres	33	29	29	27	25	24	23	22	20	17	14
SM62/5/3*	3.7	5	3	80		35	31	30	28	26	25	24	23	21	18	15
SM62/6/04C	4.5	6	4	80		40	35	34	32	29	29	27	26	24	20	15
SM62/6/4 WV	4.5	6	4	80		42	37	36	34	31	30	28	27	25	21	16
SM62/7.5/05C	5.5	7.5	5	80		53	47	44	42	39	37	35	33	30	26	19
SM62/7.5/5*	5.5	7.5	5	80		56	49	46	44	41	39	37	35	32	27	20
SM62/10/06R	7.5	10	6	80		65	60	58	56	52	50	48	46	43	37	24
SM62/10/6*	7.5	10	6	80		67	62	60	58	54	52	49	47	44	38	25
SM62/12.5/08R	9.3	12.5	8	80		97	84	79	73	65	61	55	50	45	32	27
SM62/15/10R	11	15	10	80		119	99	91	84	76	71	65	58	50	29	27
SM62/17.5/12R	13	17.5	12	80		140	115	109	102	93	87	80	73	65	49	
SM62/20/14R	15	20	14	80		146	122	114	112	105	99	93	82	81	65	33
SM62/25/17R	18.5	25	17	80		204	173	168	149	134	125	117	106	94	70	35
SM62/30/20	22	30	20	80		253	214	200	188	168	157	145	132	116	82	41
SM62/35/23	26	35	23	80		304	257	240	226	202	188	174	158	138	98	49
SM62/40/27	30	40	27	80		342	289	270	254	227	212	196	178	157	111	55
SM62/50/34	37	50	34	80		430	364	340	320	286	267	247	224	197	139	70

DISCHARGE

* 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 NXT Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/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
					lps	0	9	9.5	10	10.5	11	12	13	14	15	16	17	18	19
SM64/7.5/4 SPL	5.5	7.5	4	80/100	Head in Metres	48	37	37	36	35	34	32	30	28	25	22	19	15	11
SM64/10/05 SPL	7.5	10	5	80		60	48	47	46	45	44	42	39	37	33	30	25	21	16
SM64/15/6	11	15	6	80		77	60	59	58	57	55	53	50	47	43	39	35	29	23
SM64/17.5/7 R	13	17.5	7	80		86	69	68	66	65	64	60	57	52	49	44	38	31	27
SM64/17.5/7	13	17.5	7	80		89	71	70	68	67	66	62	59	54	50	45	39	32	28
SM64/20/8	15	20	8	80		105	81	79	78	76	75	71	67	62	57	51	45	38	30
SM64/20/8 R	15	20	8	80		102	79	77	76	74	73	69	65	60	55	49	44	37	29
SM64/25/10 R	18.5	25	10	80		128	98	95	93	92	90	87	81	76	71	64	56	49	39

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	12.6	14.4	16.2	18	19.8	21.6	23.4	25.2	27	32.4	34.2	36	37.8	39.6	41.4	43.2
					lps	0	3.5	4	4.5	5	5.5	6	6.5	7	7.5	9	9.5	10	10.5	11	11.5	12
S6M-27/3/03	2.2	3	3	65	Head in Metres	30	26.5	26	25.5	25	24	23.5	23	22	21	18	17	16	15	13	12	10
WA6BM-27/3/03	2.2	3	3	65		30	26.5	26	25.5	25	24	23.5	23	22	21	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	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	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	34	32	30	28	25	23	20
S6M-27/7.5/07	5.5	7.5	7	65		68	60	59	58	57	57	55	53	52	50	43	41	37	34	30	27	24

DISCHARGE

* 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 NXT Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	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
					lps	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
S6M-32/3/04 (PAT)	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
S6M-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
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
S6M-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
S6M-32/5/5 SPL	3.7	5	5	80		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
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

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	21.6	25.2	28.8	32.4	34.2	36	37.8	39.6	43.2
					lps	0	6	7	8	9	9.5	10	10.5	11	12
S6M-38/5/3	3.7	5	3	80	Head inMetres	35	31	30	28	26	25	24	23	21	18
S6M-38/5/4 LV (SPL)	3.7	5	4	80		42	36	33	31	29	27	26	24	22	21
S6M-38/5/4(SPL)	3.7	5	4	80		42	36	33	31	29	27	26	24	22	21
S6M-38/6/4 WV	4.5	6	4	80		43	37	36	34	31	30	28	27	25	21
S6M-38/6/5	4.5	6	5	80		51	44	42.5	40	38	37	36	34	33	29
S6M-38/7.5/5	5.5	7.5	5	80		56	49	46	44	41	39	37	35	32	27

DISCHARGE

* Marked pumpsets are having ISI licence. WV - Wide 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 NXT Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m³/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
					lps	0	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	
CRI6M-22/3/5 SPL	2.2	3	5	65	Head in Metres	53	48	46	44	42	40	37	33	30	28	18	14	10			3
CRI6M-22/5/5*	3.7	5	5	65		53	48	46	44	42	40	37	33	30	28	25	21	18	14	10	3
CRI6M-22/5/8 SPL	3.7	5	8	65		83	77	74	72	70	66	62	57	52	47	31	25	18			
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
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
CRI6M-22/7.5/8 SD*	5.5	7.5	8	65		83	77	74	72	70	66	62	57	52	47	42	36	31	25	18	3
CRI6M-22N/7.5/8	5.5	7.5	8	65		83	77	74	72	70	66	62	57	52	47	42	36	31	25	18	4
CRI6M-22/10/10*	7.5	10	10	65		105	96	92	90	85	80	74	69	61	55	48	40	34	28	20	3
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
CRI6M-22/15/15*	11	15	15	65		158	144	138	133	128	121	112	102	93	84	74	63	52	40	28	3
CRI6M-22/17.5/17*	13	17.5	17	65		180	167	159	155	149	140	131	119	110	98	87	77	65	50	37	3
CRI6M-22/20/20*	15	20	20	65		212	197	188	183	176	165	155	141	130	116	103	90	76	60	44	3

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	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	Star Rating
					lps	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	3
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
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
CRI6M-25/7.5/6 SD*	5.5	7.5	6	65		70	63	62	60	57	54	50	47	43	39	35	31	27	22	17	12	3
CRI6M-25N/7.5/6*	5.5	7.5	6	80		70	63	62	60	57	54	50	47	43	39	35	31	27	22	17	12	3
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
CRI6M-25N/10/8*	7.5	10	8	65		92	84	82	80	76	71	67	62	57	52	46	41	35	28	22	15	4
CRI6M-25/12.5/10*	9.3	12.5	10	65		115	104	102	100	96	91	84	78	72	65	58	52	44	37	28	18	3
CRI6M-25/17.5/14*	13	17.5	14	65		162	147	143	140	134	126	118	109	100	92	82	72	62	51	39	28	3
CRI6M-25/20/16*	15	20	16	65		187	169	165	162	156	148	138	128	118	107	96	85	74	61	47	32	3

DISCHARGE

* 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 NXT Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/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	Star Rating
					lps	0	6	7	8	9	9.5	10	10.5	11	12	13	14	15	16	17	
CRI6M-32/5/03*	3.7	5	3	80	Head in Metres	35	31	30	28	26	25	24	23	21	18	15					
CRI6M-32/7.5/5*	5.5	7.5	5	65		62.5	50	48.5	47.5	45.5	44.5	43.5	42	40.5	36.5	32.5	27.5	22.5	17.2	12	3 Star
CRI6M-32/7.5/5 SD*	5.5	7.5	5	65		62.5	50	48.5	47.5	45.5	44.5	43.5	42	40.5	36.5	32.5	27.5	22.5	17.2	12	3 Star
CRI6M-32/10/6*	7.5	10	6	80		76.5	60.5	58.5	57	55.5	54	52.5	51	49.5	46.5	42	38	33.5	28.5	21.5	3 Star
CRI6M-32/20/14*	15	20	14	80		150	126	123	115	108	102	96	85	83	67	34					

DISCHARGE

MATERIAL OF CONSTRUCTION - 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

MATERIAL OF CONSTRUCTION - 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
Pump shaft	SS 410 / 431
Cable guard	SS 202
Coupling	SS 410

* Marked pumpsets are having ISI licence. WV - Wide Voltage.



150mm Borewell Submersible Pumpset - BINDA 6D NXT 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

	150 MM BINDA 6D NXT
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^3/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	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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	2	3	4	5	6	7	8	9	10
					lps	0	0.55	0.83	1.11	1.39	1.67	1.94	2.22	2.50	2.77
WC6BI-06/7.5/15*	5.5	7.5	15	50	Head in Metres	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

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	2	3	4	5	6	7	8	9	10	11	12	Star Rating
					lps	0	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	

DISCHARGE

* 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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	4	6	7	8	9	10	11	12	13	14	15	Star Rating
					lps	0	1.11	1.67	1.94	2.22	2.50	2.77	3.05	3.33	3.61	3.88	4.16	
WC6BI-09/5/06*	3.7	5	6	50	Head in Metres	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-09/7.5/10*	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	

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	4	6	8	10	12	14	16	18	20	Star Rating
					lps	0	1.11	1.67	2.22	2.77	3.33	3.88	4.40	5.00	5.55	
WC6BI-10/3/03*	2.2	3	3	65	Head in Metres	51	50	48	47	46	44	39	33	27	21	
WC6BI-10N/5/05*	3.7	5	5	65		85	83	82	81	77	71	63	53	41	28	2 Star
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	2 Star
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	

DISCHARGE

* 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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	6	8	10	12	14	16	18	20	22	24	26	Star Rating
					lps	0	1.67	2.22	2.77	3.33	DISCHARGE 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	2 Star
WC6BI-15/15/12*	11	15	12	65		206	200	198	192	186	177	165	149	132	109	89	62	
WC6BI-15/17.5/14*	13	17.5	14	65		238	232	228	221	213	203	189	170	148	122	97	72	2 Star
WC6BI-15N/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^3/hr	0	10	12	16	18	20	22	24	26	28	30	32	Star Rating
					lps	0	2.77	3.33	4.40	5.00	DISCHARGE 5.55	6.11	6.66	7.22	7.77	8.33	8.88	
WC6BI-20/6/04*	4.5	6	4	65	Head in Metres	64	63	61	58	56	52	48	44	39	34	28	21	2 Star
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-20N/10/07*	7.5	10	7	65		112	110	108	102	96	90	84	76	67	56	45	34	
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	2 Star
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 NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/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	10.50	
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-25/25/13*	18.5	25	3	65		215	205	200	195	188	179	164	153	139	120	104	82	

DISCHARGE

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/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
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

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/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	14
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

DISCHARGE

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 NXT Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	15	20	25	30	35	40	45	50	55	60	65	70	72	Star Rating
					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	80/100		53	47	45	42	40	37	34	32	31	29	27	24	20	18	
SM63N/6/03	4.5	6	3	80		39	34	33	31	29	28	26	24	22	20	18	16	14	13	
SM63N/6/4	4.5	6	4	80		53		43	41	39	36.5	34	32	30	27	24.5	21	18	16	
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	3 Star
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/7.5/5	5.5	7.5	5	80		65		55	52.5	50	46	43	40	38	35	32	28	24	22	
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/25/14 SPL	18.5	25	14	80		173	156	150	143	136	128	120	112	104	95	85	75	64	60	
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	

DISCHARGE

Head in Metres

* 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 7D NXT Series

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	3.6	5.7	6.9	7.8	8.4 DISCHARGE	9.48	10.8	12.3	14.1
					lps	1.00	1.58	1.92	2.17	2.33	2.63	3.00	3.42	3.92
WC6BI-09E/10/13	7.5	10	13	50	Head in Metres	240	228	216	204	192	180	144	108	72
WC6BI-09E/15/18	11	15	18	50		360	342	324	306	288	270	216	162	108

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	5.4	7.8	9.6	10.2	11.7 DISCHARGE	12.3	14.4	16.8	19.2
					lps	1.5	2.17	2.67	2.83	3.25	3.42	4	4.67	5.33
WC6BI-12/10/10	7.5	10	10	50	Head in Metres	200	190	180	170	160	150	120	90	60
WC6BI-12/15/15	9.3	12.5	12	50		240	228	216	204	192	180	144	108	72
WC6BI-12/20/20	15	20	20	50		400	380	360	340	320	300	240	180	120

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	8.4	10.8	12.6	14.4	15.6 DISCHARGE	17.1	19.8	22.8	25.2
					lps	2.33	3	3.5	4	4.33	4.75	5.5	6.33	7
WC6BI-17/10/08	7.5	10	8	65	Head in Metres	160	152	144	136	128	120	96	72	48
WC6BI-1715/12	11	15	12	65		240	228	216	204	192	180	144	108	72
WC6BI-17/20/16	15	20	16	65		320	304	288	272	256	240	192	144	96
WC6BI-17/25/20	18.5	25	20	65		400	380	360	340	320	300	240	180	120

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	11.7	14.4	15.6	17.4	18.6 DISCHARGE	20.1	24	27.3	30
					lps	3.25	4	4.33	4.83	5.17	5.58	6.67	7.58	8.33
WC6BI-20E/15/10	11	15	10	65	Head in Metres	200	190	180	170	160	150	120	90	60
WC6BI-20E/20/13	15	20	13	65		260	247	234	221	208	195	156	117	78
WC6BI-20E/25/17	18.5	25	17	65		340	323	306	289	272	255	204	153	102

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	12	18	20.4	22.8	24.9 DISCHARGE	26.7	31.8	36.3	40.2
					lps	3.33	5	5.67	6.33	6.92	7.42	8.83	10.08	11.17
WC6BI-26/25/13	18.5	25	13	65	Head in Metres	260	247	234	221	208	195	156	117	78

*Binda 7D models are 21.3 Meter (70 feet) per stage working capacity.

PERFORMANCE CHART

150mm BOREWELL SUBMERSIBLE PUMPSET

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

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



150mm /175mm & 150mm /200mm Borewell Submersible Pumpset - CONGO NXT 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

	150 MM / 175 MM CONGO NXT	150 MM / 200 MM CONGO NXT
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	133 Metre	117 Metre
Maximum flow rate	33.3 LPS (120 m^3/hr)	34.26 LPS (123.3 m^3/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	Direct Online (D.O.L) up to 5.5 kW, Star Delta (SD) up to 18.5kW	Star Delta (SD) 5.5 kW - 26 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 NXT Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	10	20	30	40	50	60	65	70	80	Star Rating
					lps	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	3 star

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	18	23.9	27	33	39	45	51	57	63	69	78	Star Rating
					lps	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	3 star

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	10	20	30	40	50	60	65	70	80	90	Star Rating
					lps	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/12.5/03	9.3	12.5	3	100		50	49	48	46	44	40.5	37	33.5	31	25.5	18	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

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	10	20	30	40	50	60	65	70	80	90	Star Rating
					lps	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

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	25.2	32.4	39.6	46.8	54	61.2	68.4	75.6	82.8	90	97.2	Star Rating
					lps	0	7	9	11	13	15	17	19	21	23	25	27	
S7C-54N/15/04*	11	15	4	100	Head in Metres	67	60	59	57	54	52	48	44	38	33	27	6	3 star

DISCHARGE

* 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 NXT Series

																MIXED FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	18	23.98	27	33.01	39.02	45	51.01	56.98	63	69.01	74.98
					lps	0	5	6.66	7.5	9.17	10.84	12.5	14.17	15.83	17.5	19.17	20.83
WC7CM-50/6/03	4.5	6	3	100	Head in Metres	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-60N/15/04	11	15	4	100		63	57	55	54	52	49	47	44	43	40	38	35
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-56/25/10	18.5	25	10	100		133	122	118	116	112	108	109	98	93	88	84	78
WC7CM-60/12.5/03	9.3	12.5	3	100		46	42	40.5	40	38.5	37	35.5	33.5	32.5	30.5	29	27
WC7CM-60/15/04	11	15	4	100		63	57	54.5	53.5	51.5	49	46.5	44	42.5	40	37.5	35
WC7CM-60/17.5/05 SPL	13	17.5	5	100		74.5	69	67	65.5	63.5	60.5	58.5	55.5	53	50.5	47.5	44.5
WC7CM-60/20/06 SPL	15	20	6	100		85	78	75.5	74.5	72	70	66.5	63.5	61	57	53	49

DISCHARGE

* 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 NXT Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/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
					lps	0	7	9	11	13	15	DISCHARGE 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^3/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
					lps	0	7	9	11	13	15	DISCHARGE 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^3/hr	0	18	22	27	33	39	45	50	57	63	75	87	99	104	111	117	120
					lps	0	5	6	7.5	9.17	10.84	12.5	DISCHARGE 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^3/hr	0	32.4	39.6	46.8	54	61.2	68.4	75.6	82.8	90	97.2
					lps	0	9	11	13	15	DISCHARGE 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

* 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 NXT Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	20	30	40	50	60	75	80	90	100	110	120	Star Rating
					lps	0	5.56	8.33	11.12	13.90	DISCHARGE 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		60	56	55	54	52	50	44	42	36	31	24	11	3 star
S68C-62N/20/04*	15	20	4	100		81	76	74	72	70	66	60	56	49	41	32	23	3 star

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	20	30	40	50	60	75	80	90	100	110	120	Star Rating
					lps	0	5.56	8.33	11.12	13.90	DISCHARGE 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^3/hr	0	20	30	40	50	60	75	80	90	100	110	120	Star Rating
					lps	0	5.56	8.33	11.12	13.90	DISCHARGE 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		72	66	65	63	62	60	56	54.5	50	45	38	31	3 star
S68C-75N/25/4	18.5	25	4	100		87	83	81	78	75	73	68	65	59	53	46	31	3 star

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	18	23.98	27	33.01	39.02	45	51.01	56.98	63	69.01	74.98	81	87.01
					lps	0	5	6.66	7.5	9.17	10.84	DISCHARGE 12.5	14.17	15.83	17.5	19.17	20.83	22.5	24.17
S68C-60/10/02N	7.5	10	2	100	Head in Metres	36	35	34	33.5	33	31	30	28	27	25	24	23	21	
WC8CM-50/10/03	7.5	10	3	100		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 NXT Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	20	30	40	50	60	65	68	70	80	90
					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

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	18	23.98	27	33.01	39.02	45	51.01	56.98	63	69.01	74.98	81
					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

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	18	23.98	27	33.01	39.02	45	51.01	56.98	63	69.01
					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

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	36.8	69.2	84.4	95.5	106.7	113.9	122.0
					lps	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

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	24	54.4	74.1	85.2	84.1	94.9	110.9
					lps	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

DISCHARGE

* 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 NXT Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	24	54.4	74.1	85.2	84.1	94.9	110.9	120.2
					lps	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
WC8CM-68/17.5/04	13	17.5	4	100		85	78	71	63	56		50	36	24

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	19.3	45.7	65.3	77.1	86.1	100	121.7	123.3
					lps	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

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	20	30	40	50	60	75	80	90	100	110	120
					lps	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		117	100	96	90	84	77	73	68	57	47	36	

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	20	30	40	50	60	75	80	90	100	110	120
					lps	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		112	107	105	102	98	92	84	81	75	66	55	43

DISCHARGE

* 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 NXT Series

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	18	22	27	33	39	45	50	57	63	68	75	81	87	93	99	104	110
					lps	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		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		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		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		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		81	80	79	77	75	72	70	68	66	63	62	60	59	57	55	53	50	46

DISCHARGE

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

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	9	10.8	12.6	14.4	16.2	18	19.8	21.6	23.4	25.2	27	28.8
					lps	0	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
S86R-61/30/25	22	30	25	50	Head in Metres	290	268	260	252	243	235	223	210	193	174	152	131	110
S86R-61/30/28	22	30	28	50		321	296	289	281	271	259	247	232	213	190	168	145	123

DISCHARGE

MATERIAL OF CONSTRUCTION - MOTOR

150mm Motor

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

MATERIAL OF CONSTRUCTION - 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

* Marked pumpsets are having ISI licence.

BHIMA



200mm & 225mm 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

	200MM & 225MM BHIMA
Power range	7.5 kW - 75 kW (10 HP - 100 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^3/hr)
Maximum outer diameter	220 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)
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	m³/hr	0	5	10	15	20	25	30	33	36
					lps	0	1.39	2.78	4.17	5.56	6.94	8.33	9.17	10
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		324	322	319	313	302	281	250	225	196
S8C-25/50/20	37	50	20	80		416	380	368	362	354	341	318	298	276

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	10	15	20	25	30	35	38	40	42	45	50	55	60
					lps	0	2.78	4.17	5.56	6.94	8.33	9.72	10.56	11.11	11.67	12.5	13.9	15.3	16.7
S8C-30/25/08	18.5	25	8	80	Head in Metres	174	163	158	152	146	140	130	123	117	112	103			
S8C-30/30/10 (SPL)	22	30	10	80		214	195	190	186	181	175	167	160	155		140	120	92	61
S8C-30/35/12	26	35	12	80		269	242	235	232	227	220	203	192	183	175	160			
S8C-30/40/14	30	40	14	80		314	282	275	270	265	256	237	224	214	204	186			
S8C-30/45/16	34	45	16	80		350	317	312	308	304	297	278	263	252	241	221			
S8C-30/50/18	37	50	18	80		391	369	359	348	339	327	306	291	279	267	245			
S8C-30/60/20	45	60	20	80		439	398	389	383	376	368	346	328	314	300	276			

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m³/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	12.5	13.9	15.3	16.7
S8C-35/18/05	13	18	5	80	Head in Metres	106	98	96	94	92	90	85	82	80	73	65	54	41
S8C-35/20/06	15	20	6	80		129	118	115	113	110	107	103	99	96	88	77	65	50
S8C-35/25/07	18.5	25	7	80		149	136	133	130	127	124	120	116	113	102	90	75	57
S8C-35/30/08	22	30	8	80		173	159	156	152	149	145	140	135	132	121	109	92	73
S8C-35/30/09	22	30	9	80		193	178	172	168	165	161	156	151	146	134	119	101	81
S8C-35/40/11	30	40	11	80		236	223	216	209	202	195	189	183	178	163	145	125	99
S8C-35/45/13	34	45	13	80		276	259	250	241	235	229	222	215	209	192	169	143	113

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	5	10	15	20	25	30	36
					lps	0	1.39	2.78	4.17	5.56	6.94	8.33	10
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		217	214	206	196	173	144	105	56
WC8BA-25/30/12	22	30	12	80		297	288	277	269	245	218	185	140
WC8BA-25/40/14	30	40	14	80		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	m³/hr	0	5	10	15	20	23	25	27	29	31	36
					lps	0	1.39	2.78	4.17	5.56	DISCHARGE 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		341	333	320	304	283	266	255	242	227	207	165
WC8BA-27/40/14	30	40	14	80		352	343	330	313	292	274	263	249	234	213	170

Model	kW	HP	Stage	Outlet Size in mm	m³/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	DISCHARGE 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		214	195	190	186	181	175	167	160	155	140	120	92	61
WC8BM-30/30/10S	22	30	10	80		210	192	188	184	180	172	163	156	150	132	110	90	60
WC8BM-30/50/18	37	50	18	80		391	369	359	348	339	327	306	291	279	245			

Model	kW	HP	Stage	Outlet Size in mm	m³/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	DISCHARGE 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		256	236	230	224	219	213	205	199	194	178	157	133	107
WC8BM-35/45/14	34	45	14	80		295	270	263	258	253	245	236	227	222	202	177	147	115
WC8BM-35/50/15*	37	50	15	80		310	294	284	275	265	255	243	234	227	205	181	151	117
WC8BM-35/50/16*	37	50	16	80		328	306	295	285	276	268	256	245	238	215	188	157	120
WC8BM-35/60/18*	45	60	18	80		371	343	332	320	312	303	290	278	270	244	214	179	139

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	5	10	15	20	25	30	35	36	38	40	42
					lps	0	1.39	2.78	4.17	5.56	DISCHARGE 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^3/hr	0	10	20	30	40	42	44	46	48	50	60
					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

DISCHARGE

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	10	20	30	40	42	44	46	48	50	55	60
					lps	0	2.78	5.56	8.33	11.11	11.67	12.22	12.77	13.33	13.89	15.28	16.68
WC8BA-45/85/18	63	85	18	80	Head in Metres	347	341	327	307	281	274	265	255	244	233	197	161
WC8BA-50/85/16	63	85	16	80		332	324	314	300	276	270	263	255	246	236	206.5	177

DISCHARGE

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	10	20	30	40	50	60	65
					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

DISCHARGE

* 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

MIXED FLOW

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

DISCHARGE

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

DISCHARGE

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

DISCHARGE

* 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^3/hr	0	20	30	40	50	60	68	70	80	90	100
					lps	0	5.56	8.33	11.11	13.89	DISCHARGE 16.67	18.89	19.44	22.22	25	27.78
WC8BM-68/10/02	7.5	10	2	100	Head in Metres	46	41	39	37	33	31	29	27	23	18	14
WC8BM-68/15/03S	11	15	3	100		69	61	56	54	51	46	43	42	37	31	22
WC8BM-68/20/04S	15	20	4	100		91	80	75	71	67	60	56	53	48	39	30
WC8BM-68/20/04H*	15	20	4	100		94	82	77	73	69	62	58	55	49	40	31
WC8BM-68/25/05S	18.5	25	5	100		113	97	93	87	81	75	71	66	55	46	35
WC8BM-68/25/05*	18.5	25	5	100		117	100	96	90	84	77	73	68	57	47	36
WC8BM-68/25/05H	18.5	25	5	100		117	100	96	90	84	77	73	68	57	47	36
WC8BM-68/30/05R	22	30	5	100		118	101	97	91	85	78	74	69	58	48	37
WC8BM-68/30/06*	22	30	6	100		136	119	112	105	98	90	83	80	68	55	41
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		155	135	128	122	113	104	93	92	80	61	49
WC8BM-68/35/07	26	35	7	100		160	139	132	126	117	107	96	95	82	63	51
WC8BM-68/40/08S	30	40	8	100		179	155	147	141	133	118	111	108	90	80	58
WC8BM-68/40/08*	30	40	8	100		185	160	152	145	137	122	114	111	93	82	60
WC8BM-68/50/10	37	50	10	100		228	200	190	182	168	154	144	140	123	101	74
WC8BM-68/60/12	45	60	12	100		276	240	230	214	203	184	173	164	142	122	91

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

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	20	30	40	50	60	75	80	90	100	110	120	Star Rating
					lps	0	5.56	8.33	11.11	13.89	16.67	20.83	22.22	25	27.78	30.56	33.33	
WC8BM-75N/20/03*	15	20	3	100	Head in Metres	70	67	66	64	62	59	55	53	49	44	37	30	3 Star
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-75/30/05	22	30	5	100		112	107	105	102	98	92	84	81	75	66	55	43	
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-75/40/06	30	40	6	100		134	130	126	122	117	110	100	96	88	77	65	51	
WC8BM-75/50/07	37	50	7	100		158	152	147	143	137	129	117	113	103	91	77	60	
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^3/hr	0	20	30	40	50	60	75	80	90	100	110	120	Star Rating
					lps	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

* 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

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	20	40	60	80	88	90	92	94	96	100	120	136	Star Rating
					lps	0	5.56	11.11	16.67	22.22	24.44	DISCHARGE 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-80/50/06	37	50	6	100		149	143	140	136	131	123	117	112	105	94	80	60		
WC8BM-80/75/10	55	75	10	100		230	216	205	189	167	162	157	153	150	147	142	102	60	
WC8BM-82/35/04*	26	35	4	100		105	99	95	89	83	80	78	76	74	73	71	50	31	3 star

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	5.56	8.33	11.12	13.9	16.68	20.83	22.22	25	27.77	30.55	31.94
					lps	0	20	30	40	50	DISCHARGE 60	75	80	90	100	110	115
WC8BM-77/50/08	37	50	8	100	Head in Metres	191	175	167	159	152	144	125	118	103	85	65	56
WC8BM-77/60/10	45	60	10	100		234	210	201	194	187	177	156	148	127	106	82	71
WC8BM-77/75/13	55	75	13	100		314	285	272	260	250	237	211	200	176	148	120	101
WC8BM-77/75/14	55	75	14	100		322	297	284	275	259	245	218	205	175	146	111	84

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	5.55	11.11	16.66	19.44	22.22	23.6	25.55	27.77	30.55	33.33	37.77
					lps	0	20	40	60	70	DISCHARGE 80	85	92	100	110	120	136
WC8BM-82/60/08	45	60	8	100	Head in Metres	199	185	171	158	153	148	145	140	131	117	103	43
WC8BM-82/60/09	45	60	9	100		217	197	183	170	164	158	154	147	135	119	102	77
WC8BM-82/75/10	55	75	10	100		245	219	205	193	188	181	177	168	155	139	120	88.5
WC8BM-92/85/10	63	85	10	100		255	238	221	209	205	200	197	189	178	162	143	112

* 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

MIXED FLOW

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	20	40	60	70	80	85	92	100	110	120	136	Star Rating
					lps	0	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-95/20/03*	15	20	3	100		72	69	64	59	55	53	51	48	42	36	29	11	1 Star
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-95/40/03S	30	40	3	150		78	76	73	68	66	63	62	59	55	50	43	22	
WC8BM-95/40/04S	30	40	4	100		105	100	97	91	88	85	83	80	75	67	57	40	
WC8BM-95N/40/04*	30	40	4	100		105	100	97	91	88	85	83	80	75	67	57	40	3 Star
WC8BM-95/50/05*	37	50	5	100		126	125	120	113	109	105	103	99	92	82	70	48	3 Star
WC8BM-95/60/06	45	60	6	100		165	158	148	138	134	130	128	126	120	109	100	72	

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	20	40	60	80	100	120	122	124	126	128	130	140	160	180	192
					lps	0	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

Model	kW	HP	Stage	Outlet Size in mm	m³/hr	0	10	20	30	40	50	56	58	60	62	64	70	80	90
					lps	0	2.77	5.55	8.33	11.11	13.88	15.55	16.11	16.66	17.22	17.77	19.44	22.22	25
WC8BM-60/15/04 - N	11	15	4	100	Head in Metres	82	78	73	69	65	61	59	58	57	56	55	52	44	36
WC8BM-60/20/05 - N	15	20	5	100		102	97	91	86	81	76	73	72	71	69	68	65	55	44
WC8BM-60/30/08 - N	22	30	8	100		163	155	145	136	129	122	116	114	112	110	109	103	88	71
WC8BM-60/35/09 - N	26	35	9	100		183	175	163	153	145	137	131	128	126	124	122	116	99	79
WC8BM-60/40/10 - N	30	40	10	100		204	194	181	170	161	152	145	142	140	138	135	128	110	88

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

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^3/hr	0	20	30	40	50	60	65	68	70	80	90	100
					lps	0	5.56	8.34	11.12	13.9	DISCHARGE 16.68	18.06	18.88	19.44	22.22	25	27.78
WC8BM-68/25/06 - N	18.5	25	6	100	Head in Metres	124	112	106	101	95	88	84	81	79	68	55	41
WC8BM-68/30/07 - N	22	30	7	100		145	129	124	118	111	102	97	94	91	78	63	46
WC8BM-68/35/08 - N	26	35	8	100		167	153	146	138	130	122	115	112	109	94	77	57

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	20	30	40	50	60	65	68	70	80	90	100
					lps	0	5.56	8.34	11.12	13.9	DISCHARGE 16.68	18.06	18.88	19.44	22.22	25	27.78
WC8BM-70/35/06 - N	26	35	6	100	Head in Metres	133	120	115	110	106	100	98	95	92	89	80	69
WC8BM-70/40/07 - N	30	40	7	100		166	152	145	138	132	125	121	118	116	105	91	76
WC8BM-70/50/08 - N	37	50	8	100		177	160	153	147	141	134	130	127	123	118	107	92

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	20	30	40	50	60	70	75	80	90	100	110	120
					lps	0	5.56	8.33	11.12	13.9	DISCHARGE 16.7	19.44	20.83	22.22	25	27.77	30.55	33.3
WC8BM-75/25/04 - N	18.5	25	4	100	Head in Metres	92	84	80	78	76	73	70	68	65	60	53	46	37
WC8BM-75/40/06 - N	30	40	6	100		139	128	123	117	113	109	105	103	101	95	86	75	64
WC8BM-75/50/07 - N	37	50	7	100		162	149	143	137	132	127	123	120	118	110	100	88	74
WC8BM-75/85/12 - N	63	85	12	100		277	256	245	234	226	218	210	206	203	189	172	151	127

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	20	30	40	50	60	70	75	80	90	100	110	120	130
					lps	0	5.56	8.33	11.12	13.9	16.7	DISCHARGE 19.44	20.83	22.22	25	27.77	30.55	33.3	36.11
WC8BM-80/40/05 - N	30	40	5	100	Head in Metres	120	111	107	103	99	95	92	89	86	79	71	61	50	37
WC8BM-80/50/06 - N	37	50	6	100		143	133	128	123	119	115	110	107	103	95	85	73	60	44

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	20	30	40	60	70	80	90	95	100	110	120	130	135
					lps	0	5.56	8.33	11.12	16.7	19.44	DISCHARGE 22.22	25	26.39	27.77	30.55	33.3	36.11	37.5
WC8BM-95/60/07 - N	45	60	7	100	Head in Metres	183	178	175	172	167	164	140	132	128	122	109	96	81	73
WC8BM-95/85/10 - N	63	85	10	100		262	254	250	246	238	234	200	188	182	174	156	137	115	104

PERFORMANCE CHART

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

225mm BOREWELL SUBMERSIBLE PUMPSET - BHIMA Series

Model	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	20	30	40	50	60	70	75	80	90	100
					lps	0	5.56	8.33	11.11	13.89	16.69	19.44	20.83	22.22	25	27.78
WC9BM-68/75/12	56	75	12	100	Head in Metres	279	252	242	234	228	220	214	212	202	189	172
WC9BM-68/85/12	63	85	12	100		291	266	255	245	237	230	225	224	215	202	183
WC9BM-68/85/14	63	85	14	100		301	279	268	258	249	239	231	228	214	197	177
WC9BM-68/100/12	75	100	12	100		300	275	264	254	245	237	232	230	220	204	185
WC9BM-68/100/14	75	100	14	100		336	306	295	285	275	266	258	256	244	228	211

DISCHARGE

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

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

RYKER Kisan ka DOST



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.

HAYRA Kisan ka DOST



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



RYKER Kisan ka DOST



RYKER Kisan ka DOST



APPLICATION

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

SPECIFICATIONS

SPECIFICATIONS	RYKER, HAYRA, CSM, CV & CVH
Power range	2.2 kW - 30 kW (3HP - 40HP)
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^3/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, 75,100 & 150 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^3/hr	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	Star Rating
					lps	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-350 SPL	CI	2.2	3	50		27			26	25.5	25	24	23	21.5	20	18.5	17	14.5					
RYKER-365*	CI	2.2	3	65		23					21		20		19	18	17		16	15	14	13	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-550 SPL	CI	3.7	5	50		38				36	35	33	31	28	25	21							
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-557	CI	3.7	5	50		48	45	42	38	33	27	17											
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		51		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		
RYKER-1251	CI	9.3	12	50		76	75.5	75	74.5	74	73.5	72.5	71	69	30	17.5							

Model	Motor Frame	kW	HP	Outlet Size in mm	m^3/hr	0	29	40	43	47	50	54	58	61	65	68	72	76	79	83	86	90	94	97	101	104	Star Rating
					lps	0	8	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
RYKER-750N	CI	5.5	7.5	50	Head in Metres	46	45	44	43.5	43	42.5	41.5	41	40	38	37	36	34	32	31							
RYKER-765*	CI	5.5	7.5	65		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-950*	CI	7.5	10	50		47	46	45		44	43		42	41	39	38	37	35	33	32							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-1565	CI	11	15	65		55	54.5	54	54	54	53.5	53	52.5	52	51	50	47										
RYKER-2050	CI	15	20	50		63	62		61		61		60	59	58	56	55	52	40								
RYKER-2065	CI	15	20	65		67	65	63.5			62.5		61.5	60.5	60	58	57	55	54	52	50.5	48.5	44	16			

* 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	Outlet Size in mm	m^3/hr	0	29	43	50	58	61	65	72	76	79	83	86	90	94	97	101	104	108	115	122	130	137
					lps	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

DISCHARGE

Model	Body	kW	HP	Outlet Size in mm	m^3/hr	0	29	43	50	58	61	65	68	72	76	79	83	86	90	94	133	137	144	151
					lps	0	16	20	22	23	24	25	26	27	28	29	30	32	34	36	37	38	40	42
RYKER-2075	CI	15	20	100x80	Head in Metres	54	53	51	50	49	48	47	46	45	44	42	41	38	35	31	29			
RYKER-20100	CI	15	20	100x100		54	53	50.5	49	48	47	46	45	43	41	40	39	36.5	33.5	29.5	27	24	19	13

DISCHARGE

Model	Body	kW	HP	Outlet Size in mm	m^3/hr	0	7.2	10.8	14.4	18	21.6	25.2	28.8	32.4	36	39.4	43.2
					lps	0	2	3	4	5	6	7	8	9	10	11	12
HAYRA-350	CI	2.2	3	65x 50	Head in Metres	41			37	36	34	33	31	30	28	26	24
HAYRA-550	CI	3.7	5	65x 50		32	30	29	28	26	25	23	20	18	15		

DISCHARGE

Model	Body	kW	HP	Outlet Size in mm	m^3/hr	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	Star Rating
					lps	0	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
CSM-1-N	CI	2.2	3	50	Head in Metres	24.5	24	23.5	23	22.5	22	21	20	19	18	16							
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											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-44*	SS/CI	3.7	5	50		44	43	42	41	39	38	37	35	30	11								4 Star
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				

DISCHARGE

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^3/hr	0	28.8	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
					lps	0	8	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
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

DISCHARGE

Model	Body	kW	HP	Outlet Size in mm	m^3/hr	0	36	39.6	43.2	46.8	50.4	54	57.6	61.2	64.8	68.4	72	75.6	Star Rating
					lps	0	10	11	12	13	14	15	16	17	18	19	20	21	
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

DISCHARGE

Model	Body	kW	HP	Outlet Size in mm	m^3/hr	0	29	43	50	58	61	65	68	72	76	79	83	86	90	94	97	101	104	108	115	122	130	137
					lps	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	75	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	75		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	75		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	75		47				46				45.5		45	44.8	44.5	44.2	44	43.5	43.2	43	42.5	41.5	40.5	39	38

DISCHARGE

Model	Body	kW	HP	Outlet Size in mm	m^3/hr	0	58	72	79	83	86	90	94	97	101	104	108	115	122	130	137	144	151	158	173	187	194
					lps	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

DISCHARGE

* 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^3/hr	0	58	72	79	83	86	90	94	97	101	104	108	115	122	130	137
					lps	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

DISCHARGE

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

VERTICAL OPENWELL SUBMERSIBLE PUMPSET - RYKER Series

Model	Body	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	14.4	18	21.6	25.2	28.8	32.4	36	39.6	43.2	46.8	50.4	54
						lps	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		
RYKER V-767	CI	5.5	7.5	4	65		80	75	72	70	63	56	47	38	28	10			
RYKER V-10/3	CI	7.5	10	3	65		63	60.5	59.5	58.5	57	54	50.5	47	42.5	36	29.5	22	13
RYKER V-10/4	CI	7.5	10	4	65		87	84	82.5	80.5	75.5	69.5	43	56	48	38			
RYKER V-12.5/4	CI	9.3	12.5	4	65		83	80.5	79	77.5	76	73.5	68.5	63	56.5	49.5	40.5	30.5	18.5
RYKER V-12.5/5	CI	9.3	12.5	5	65		109.5	105.5	103.5	101	97	89.5	81.5	72.5	62	49			
RYKER V-15/5	CI	11	15	5	65		105	101	99	96.5	94	91	86.5	79.5	71.5	62	51.5	40.5	25.5
RYKER V-15/06	CI	11	15	6	65		132.8	125	121	117	112	107	100	89	77	61			
RYKER V-20/6	CI	15	20	6	65		125	121.5	120	117	114	110.5	105	96.5	87.5	76.5	62.5	47.5	31

DISCHARGE

* 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^3/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
						lps	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-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-66*	CI	11	15	6	65		141	134	131	127	121	114	105	94	80	63	44	22			
CV-76*	CI	15	20	6	65		153	134	132	129	126	122	118	112	104	94	82	66	48	25	
CV-25/8	CI	18.5	25	8	75		172	170	166	159	151	143	132	119	105	88	68	43	15		
CV-30/8	CI	22	30	8	75		210	204	196	189	180	172	164	155	144	130	114	89	61	21	
CV-35/8	CI	26	35	8	75		206	197	193	187	180	172	164	154	143	130	114	89	64	40	
CV-40/13	CI	30	40	13	75		275	252	246	240	229	216	199	180	155	126	95	58			

DISCHARGE

Model	Body	kW	HP	Stage	Outlet Size in mm	m^3/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
						lps	0	10	12	14	16	18	20	22	24	26	28	30	32	34
CV-30/4	CI	22	30	4	100	Head in Metres	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

DISCHARGE

* 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 / CVH Series

Model	Body	kW	HP	Stage	Outlet Size in mm	m^3/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
						lps	0	21	28	30	32	34	36	38	40	42	44	46	48	50	52	54
CV-35/3	CI	26	35	3	100	Head in Metres	82	65	59	58	56	54	52	51	49	46	44	41	38	35	32	27

DISCHARGE

Model	Body	kW	HP	Stage	Outlet Size in mm	m^3/hr	0	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4	16.2	18	19.8	21.6
						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	75	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-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			

DISCHARGE

MATERIAL OF CONSTRUCTION - 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 - 11kW (3HP - 15HP)
Speed	2880 RPM	2880 RPM	1440 RPM
Version	Single phase - 200 - 240V; Three phase - 380 - 415V, 50Hz AC Supply		
Maximum total head	57.5 Metre	94 Metre	21 Metre
Maximum flow rate	23 LPS (82.8m^3/hr)	23 LPS (82.8m^3/hr)	80 LPS (288 m^3/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, 100 x 100 & 150 x 150 mm		

PERFORMANCE CHART

CENTRIFUGAL MONOBLOCK PUMPSET - JUMBO Series

2880 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,
Three Phase 380-415V, 50Hz, A.C. Supply.

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m^3/hr	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
JUMBO 18/3	2.2	3	65	50	Head in Metres	31.5	28	27	26	25	23	22	20	18.5	16											
JUMBO 36/3	2.2	3	65	50		27										26	25	24	23.5	23	22.5	21.5	20.5	19	17	15

DISCHARGE

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m^3/hr	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
JUMBO 37/5	3.7	5	65	50	Head in Metres	44	38	36.5	35	34	33	32	31	30	28	26						
JUMBO 45/5	3.7	5	65	50		37					30	29.5	29	28	27.5	26	24.5	20	21	19.5	18	
JUMBO 41/7.5	5.5	7.5	65	50		53			50	48	46	46.5	46	45	40	36						
JUMBO 47/10	7.5	10	65	50		57.5				56	55	54.5	53	52	51	50	48	46	42	38		

DISCHARGE

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m^3/hr	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
JUMBO 38/3	2.2	3	75	65	Head in Metres	18	16	15	14.5	14	13	12.5	12	11	8					
JUMBO 60/5	3.7	5	75	65		29			26	25.5	25	24.5	24	23.5	23	22	21	20	19	14
JUMBO 49/7.5	5.5	7.5	75	65		40			38	37	36.5	35	34	32.5	28	20				

DISCHARGE

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m^3/hr	0	7.2	9.0	10.8	12.6	14.4	16.2	18.0	19.8	21.6	23.4	25.2
					lps	0	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
CTG-14/5T	3.7	5	50	40	Head in Metres	49	48	47	45	42	40	37.5	35	33	29.5	25	18

DISCHARGE

PERFORMANCE CHART

CENTRIFUGAL MONOBLOCK PUMPSET - JUMBO Series

2880 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,
Three Phase 380-415V, 50Hz, A.C. Supply.

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m^3/hr	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
					lps	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-34/5D	3.7	5	65	50	Head in Metres	31				30.5	30	29.5	29	28.5	28	27	25	24		
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-N	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-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^3/hr	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
					lps	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-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

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m^3/hr	0	31	32	34	36	37	40	43	47	50	54	57	61	65	68	72
					lps	0	8.5	9	9.5	10	10.5	11	12	13	14	15	16	17	18	19	20
CTG-43/3D SPL	3.7	5	75	65	Head in Metres	23				22.5	22	21.5	21	20	19	17	16	15			
CTG-55/5-2 #	3.7	5	75	65		23	23	22		21.5		21	20.5	20	19.5	18	17	15.5	14		
CTG-39/5D SPL	5.5	7.5	75	65		27		26.5	26	26	25.5	25	24.5	24	23	22.5	21	20	18	16	13

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m^3/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
					lps	0	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
CTG-65/7.5D	5.5	7.5	100	75	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-68/10D	7.5	10	100	75		41	34	33.5	33	32	31	30	29.5	28.5	28	27	26	25	24	23	22	20.5	19.5	15
CTG-86/12.5D-N	9.3	12.5	100	75		39	36	36	35.5	35	35	34.5	34.5	34	33.5	33	32	31.5	31	30	23	20.5	20	
CTG-65/7.5D SPL	7.5	10	100	100		28	26	25.5	25	24.5	24	23.5	23	22.5	22	21.5	21	20	19	18	16	14		

- Special Voltage Design Model.

PERFORMANCE CHART

CENTRIFUGAL MONOBLOCK PUMPSET - JUMBO Series

2880 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,
Three Phase 380-415V, 50Hz, A.C. Supply.

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

DISCHARGE

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m^3/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
					lps	0	3.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
CTT-21/5N	3.7	5	65	50	Head in Metres	40	37	34.5	33.5	32	31	30	28	27	26	24	20	9

DISCHARGE

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m^3/hr	0	50	57	65	72	79	86	90	94	97	101	104	108	111.6	115
					lps	0	14	16	18	20	22	24	25	26	27	28	29	30	31	32
CTT-68/5N	3.7	5	100	100	Head in Metres	19	18	17.5	16.5	15.5	15	14	13.5	13	12.5	12	11.2	10.5	9.5	8.5

DISCHARGE

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m^3/hr	0	10.8	18.9	24.7	31	35.7	40	43.2	46.3	48.9
					lps	0	3	5.3	6.9	8.6	9.9	11.1	12	12.9	13.6
7.5H1-N2 SPL	5.5	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

DISCHARGE

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m^3/hr	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
CFG-52/3D	2.2	3	100	100	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-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

DISCHARGE

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m^3/hr	0	34.2	37.8	41.4	45.0	48.5	52.2	55.8	59.2	63.0	66.6	70.2
					lps	0	9.5	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5
CFG-50/3D	2.2	3	75	65	Head in Metres	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

DISCHARGE

- Special Voltage Design Model.

PERFORMANCE CHART

2880 RPM, At Rated Voltage – Single Phase 220-240V, 50Hz, A.C. Supply,
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^3/hr	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
CFG-169/7.5D	5.5	7.5	150	150	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

DISCHARGE

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m^3/hr	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
CFG-172/10D	7.5	10	150	150	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

DISCHARGE

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m^3/hr	0	108	126	144	162	180	198	216	234	252	270	288
					lps	0	30	35	40	45	50	55	60	65	70	75	80
JUMBO 180/15	11	15	150	150	Head in Metres	21	20.5	20	19.5	18.5	17.5	16.5	15	13.5	12	10.5	9

DISCHARGE

MATERIAL OF CONSTRUCTION - 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

* Marked pumpsets are having ISI licence.

ACM / ACM PRO
ADM Series







Virat



Centrifugal Monoblock Pumpset - ACM / ACM PRO / ADM / VIRAT / VIRAT PRO Series

C.R.I. Centrifugal Monoblock pumpsets are powered by a totally enclosed fan cooled AC induction two pole motor. 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 resistance and are varnish impregnated. Construction of motor frame and usage of quality materials result in high performance and low temperature rise thereby increasing the life cycle of the motor.

SALIENT FEATURES

• High operating efficiency resulting in lower power consumption • Inbuilt with thermal overload protector in all single phase pumpsets upto 2 HP • Specially designed for wide voltage operation • SS 304 impellers are used in specific pump models to increase the life of the pump • Dynamically balanced rotating parts including rotor and impeller ensures minimum vibration and longer life • Back pull-out design for easy servicing and repair • Double shielded ball bearings, so no need of external lubrication • Available in CI & Aluminium frame.

APPLICATION

• Domestic • Irrigation • Farms • Gardens • Industry • Civil applications.

SPECIFICATIONS

	ACM / ACM PRO / ADM	VIRAT / VIRAT PRO
Power range	0.37 kW - 2.2 kW (0.5 HP - 3 HP)	0.37 kW - 1.5 kW (0.5 HP - 2 HP)
Speed	2880 RPM	
Version	Single phase 220 - 240V; Three phase 380 - 415V, 50Hz, A.C. Supply	
Maximum total head	60 Metre	34 Metre
Maximum flow rate	18 LPS (64.8m^3/hr)	8.33 LPS (29.99m^3/hr)
Maximum suction lift	7 Metre	
Class of insulation	B	
Maximum ambient temperature	40°C	
Sealing	Mechanical seal	
Method of starting	Permanent Split Capacitor (PSC)	
Nominal pumpset size (Suction x Delivery)	25 x 25, 32 x 25, 40 x 32, 40 x 40, 50 x 40, 50 x 50, 65 x 50, 80 x 65, 80 x 80 & 100 x 100 mm	

PERFORMANCE CHART

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - ACM Series

DISCHARGE

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	1.4	2.2	2.6	3.8	4.2	4.6	5.4	6.1	6.8	7.6	8.3	9.0	9.7	10.4	11.2	11.9	Star Rating
					lps	0	0.4	0.6	0.7	1.0	1.2	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	
ACM 0*	CI	0.37	0.5	25x25	Head in Metres	19	18	17	16	15	15	14	13	9	8								
ACM 2S*	CI	0.37	0.5	25x25		29		26	25	24	23	23	22	18									5
ACM 44*	CI	0.55	0.75	25x25		35		30	29	28	28	28	26	17	18								5
T/ACM 2*	AL	0.75	1	25x25		31		28	27	26	25	25	24	23	18	13							
ACM 24	CI	0.75	1	25x25		34	31	31	30	30	30	30	25										
ACM A0	AI	0.37	0.5	25x25		18		16	16	14	13	13	12										
ACM A1*	AL/CI	0.37	0.5	25x25		20		19.8	19.6	18.4	17.9	17.3											
ACM A2S*	AL	0.37	0.5	25x25		27		24	23	22	21	20	19	13									5
ACM A2*	AL/CI	0.75	1	25x25		33		31	30	29	28	28	27	14									5
ACM A24*	CI	0.75	1	25x25		34		32	32	31	30	30	29	15									5
ACM A3-H	AL	0.75	1	32x25		28				24	23	23	22	22	21	20	19	18	15	14			
ACM-28 / T/ACM-28	AL	1.1	1.5	32x25		43				38	37	37	36	35	35	34	33	32	31	30	28	23	

DISCHARGE

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	8	10	11	12	13	14	15	16	17	18	19	20
					lps	0	2.2	2.8	3.1	3.3	3.6	3.9	4.2	4.4	4.7	5.0	5.3	5.6
ACM-60 WV/ES	CI	0.37	0.5	50x50	Head in Metres	14	13	13	13	13	12	12	12	11	11	10	10	9

DISCHARGE

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	10.8	14.4	18.0	21.6	25.2	28.8	32.4	36.0	39.6	43.2	46.8	50.4
					lps	0	3	4	5	6	7	8	9	10	11	12	13	14
T/ACM-6* / S-ACM-6	CI	0.75	1	50x50	Head in Metres	13	12	12	11	10	8							
ACM-38	CI	0.75	1	65x50														
ACM-40S* LV	CI/AL	1.1	1.5	80x80		9.9				9.7	9.7	9.4	8.9	8.3	7.9	7.4		
S/ACM-18	CI	1.1	1.5	50x40		23	18	15	11									
S/ACM-9	CI	1.1	1.5	50x50		17		14	12	11	8	4						
S/ACM-20	CI	1.1	1.5	65x50		15	15	14	14	14	13	11	8					
ACM-42*	AF	1.1	1.5	80x80		14	13	13	13	12	12	11	10	9	8	8	6	5
ACM-42 WV	AF	1.1	1.5	80x80		14	13.4	13	12.6	12.2	11.6	11	10	9.1	8.2	7.5	6.4	5.4
S/ACM-19 / ACM-19* T/ACM-19*	CI	1.5	2	50x50		24	21	20	19	16	14							

* Marked pumpset are having ISI licence. WV - Wide voltage operation | LV - Low voltage operation | ES - Extension Shafts available | S - Sleek | H - High head | Pro denoted models are copper-coated windings.

PERFORMANCE CHART

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - ACM Series

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	2.2	2.6	3.8	4.2	4.6	5.4	6.1	6.8
					lps	0	0.6	0.7	1.0	1.2	1.3	1.5	1.7	1.8
ACM PRO 44	CI	0.55	0.75	25x25	Head in Metres	35	30	29	28	28	28	26	17	18
ACM PRO A2	AL/CI	0.75	1	25x25		33	31	30	29	28	28	27	14	
ACM PRO A24	AL	0.75	1	25x25		34	32	32	31	30	30	29	15	

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	7.2	10.8	14.4	18.0	21.6	25.2	28.8	32.4	36.0	39.6	43.2	46.8	50.4	54.0	57.6	61.2	64.8
					lps	0	2	3	4	5	6	7.1	8	9	10	11	12	13	14	15	16	17	18
ACM-54	AF	0.75	1	80x80	Head in Metres	13			12	11	11	10	10	9	8	8	7	6					
ACM-21LV / S/ACM-21 / ACM-21*/SW/ACM-21LV	CI	1.5	2	65x50		22		21	20	19	18	17	15	12	9								
ACM-22* / S / ACM-22	CI	1.5	2	80x65		16								12	11	10	9	8	7				
SW/ACM-58 -ES	CI	1.5	2	80x65		16						14	13	12	11	9							
SW/ACM-59	CI	1.5	2	80x80		15						14	13	12	11	9							
T/ACM-23 / ACM-23* /SW/ACM-23	CI	1.5	2	80x80		17			15	15	14	14	13	12	11	10	9	8	7	6			
ACM-23S*/ACM-23SWV	CI	1.5	2	80x80		15						12	12	11	10	10	9	8	7	6	5		
ACM-62	CI	1.5	2	80x80		14				13	12	12	11	10	9	8	8	6	5				
ACM-36	CI	1.5	2	100x100		15				14	14	14	14	13	13	12	12	11	10	9	8	7	
S/ACM-47 / T/ACM-47 /S/ACM-47	CI	2.2	3	50x50		36				31	13	8											
S/ACM-29 / ACM-29	CI	2.2	3	65x50		25					23	22	21	19	17	15	13	11					
S/ACM-30 / ACM-30	CI	2.2	3	80x65		19.5				18	18	18	17	17	16	16	15	14	13	12	11		
S/ACM-31 / ACM-31	CI	2.2	3	80x80		19								17	16	15	14	13	12	11	10	9	8
S/ACM-34	CI	2.2	3	100x100		16					15	15	15	14	14	14	13	13	12	11	10	9	7
ACM-64 / S / ACM-64	CI	2.2	3	100x100		15				14	14	14	14	13	13	12	12	11	10	9	8	7	
ACM-27 / S / ACM-27	CI	1.5	2	50x50		33.5	33	32.5	32	30	16												
ACM-42N	CI	1.1	1.5	80x80		8.8							8.7	8.6	8.4	8.0	7.3	6.8					
S/ACM-22S	CI	1.5	2	80x65		15				13.5	13	12	11	10.5	9.5	8.6	8	7					

* Marked pumpset are having ISI licence. WV - Wide voltage operation | LV - Low voltage operation | ES - Extension Shafts available | S - Sleek | H - High head | Pro denoted models are copper-coated windings.

PERFORMANCE CHART

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - ACM Series

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	4	6	8	10	11	12	13	18	20	22	24	24	25	27	32	34	38	40	45
					lps	0	1.1	1.7	2.2	2.8	3.1	3.3	3.6	5.0	5.6	6.1	6.7	6.8	6.9	7.5	8.9	9.4	10.6	11.1	12.5
ACM 40S	CI	0.75	1	80x80	Head in Metres	9.9	9.8	9.8	9.8	9.7	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.1	9.0	8.5	8.3	7.7	7.4	6.6
ACM-40 WV ES / WV	AL	0.75	1	80x80		13									12	11	11	11	11	10	9	9	8	7	6
S/ACM-45	CI	2.2	3	50x40		37						33	33	32	30	28	26	23	20						

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	1.4	2.2	2.6	3.8	4.2	4.6	5.4	6.1	6.8	7.6	8.3	9.0	9.7	10.4	11.2	11.9	12.6	13.3	Star Rating
					lps	0	0.4	0.6	0.7	1.0	1.2	1.3	1.5	1.7	1.8	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	
ACM A0	AI	0.37	0.5	25x25	Head in Metres	18		16	16	14	13	13	12												
ACM A1*	AL/CI	0.37	0.5	25x25		20		19.8	19.6	18.4	17.9	17.3													
ACM A2S*	AL	0.37	0.5	25x25		27		24	23	22	21	20	19	13											5
ACM A12*	CI	0.37	0.5	40x40											14	14	13	13	113	12	12	12	11	10	
ACM A48 WV / DF / ES	CI	0.37	0.5	40x40		16									12	12	12	11	11	10	9	9	8	7	
ACM A48N AF / DF / ES	CI	0.37	0.5	40x40		12.5					12	11.8	11.6	11.3	11.2	10.9	10.5	10	9.6	9.3	8.8				
ACM 60N / ES	CI	0.37	0.5	50x50		12.2				12	11.9	11.8	11.7	11.6	11.4	11.2	11	10.9	10.8	10.5	10.3	10	9.7	9.3	
ACM A2*	AL/CI	0.75	1	25x25		33		31	30	29	28	28	27	14											5
ACM A24*	CI	0.75	1	25x25		34		32	32	31	30	30	29	15											5
ACM A3-H	AL	0.75	1	32x25		28				24	23	23	22	22	21	20	19	18	15	14					
ACM A10* / DF	CI	0.75	1	40x40		23								20	20	19	19	18	17	17	16	15	14	13	3

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	3.8	4.2	4.6	5.4	6.1	6.8	7.6	8.3	9.0	9.7	10.4	11.2	11.9	12.6	13.3	Star Rating
					lps	0	1.1	1.2	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	
S/ACM - A11 N	CI	0.75	1	50x40	Head in Metres	19								16	16	15	15	15	15	14	14	3
ACM A11* / ES	CI	0.75	1	50x40		19								16	16	15	15	15	15	14	14	3
ACM A15*	AI	1.1	1.5	40x32		30				28	27	27	27	26	25	25	24	22	19	14	12	5
ACM A18*	CI	1.1	1.5	50x40		23	21	21	21	21	20	20	20	19	19	19	18	18	17	16	16	

* Marked pumpset are having ISI licence. WV - Wide voltage operation | LV - Low voltage operation | ES - Extension Shafts available | S - Sleek | H - High head

PERFORMANCE CHART

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - ACM Series

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	4.5	6.8	7.3	7.6	8.2	8.4	8.6	9.0	14.0	15.0	22.5	24.0	25.6	28.0	30.0
					lps	0	1.3	1.9	2.0	2.1	2.2	2.3	2.4	2.5	3.9	4.2	6.3	6.7	7.1	7.8	8.3
ACMA6* / ACMA6 WV / ES	CI	0.75	1	50x50	Head in Metres	14						14	14	13	12	12	10	9	8	8	
ACM A9*	CI	1.1	1.5	50x50		15										14	11	11	10		
ACM A9S	CI	1.1	1.5	50x50		14			14					14	13	12	10	9	9	6	
ACM A20*	CI	1.1	1.5	65x50		18									17	17	14	13	12	11	9
ACM A20S	CI	1.1	1.5	65x50		15								14	13	13	10	10	9	8	8

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	6	8	10	11	12	13	14	15	16	17	18	19	23.76
					lps	0	1.7	2.2	2.8	3.1	3.3	3.6	3.9	4.2	4.4	4.7	5	5.3	6.6
ACM50 & ACM50 ES	CI	0.75	1	50x50	Head in Metres	14	14	14	13	13	13	12	12	12	11	11	10	10	

Model	kW	HP	Suction x Delivery in mm	m^3/hr	0	10.8	14.4	18	21.6	25.2	28.8	32.4	36	39.6	43.2	46.8	50.4
				lps	0	3	4	5	6	7.1	8	9	10	11	12	13	14
ACM22N	1.5	2	80 x 65	Head in Metres	14.5	14.3	14.1	13.8	13.6	13.3	12.9	12.2	11.4	10.7	10	8.9	7.9
SW/ACM22N	1.5	2	80 x 65		14.5	14.3	14.1	13.8	13.6	13.3	12.9	12.2	11.4	10.7	10	8.9	7.9
ACM 23N	1.5	2	80 X 80		14.2	14	13.9	13.7	13.5	13	12.8	12	11.5	10.5	10	9	8
ACM 23 N LV	1.5	2	80 X 80		14.2	14	13.9	13.7	13.5	13	12.8	12	11.5	10.5	10	9	8
SW/ACM 23N	1.5	2	80 X 80		14.2	14	13.9	13.7	13.5	13	12.8	12	11.5	10.5	10	9	8

Model	kW	HP	Suction x Delivery in mm	m^3/hr	0	10	11	12	13	18	20	22	24	24	25	27	32	34	38	40	45
				lps	0	2.8	3.1	3.3	3.6	5	5.6	6.1	6.7	6.8	6.9	7.5	8.9	9.4	10.6	11.1	12.5
ACM 40 N /ACM 40 N ES	0.75	1	80 X 80	Head in Metres	9.65	9.6	9.6	9.6	9.5	9.5	9.5	9.4	9.4	9.3	9.3	9.2	8.7	8.5	8	7.5	7

Model	kW	HP	Suction x Delivery in mm	m^3/hr	0	10.8	14.4	18	21.6	25.2	28.8	32.4	36	39.6	43.2	46.8	50.4
				lps	0	3	4	5	6	7.1	8	9	10	11	12	13	14
SW/ACM-2080	1.5	2	80X80	Head in Metres	13.5	13.1	13	12.8	12.6	12.1	11.6	11.2	10.7	10.6	9.5	8.8	7.8
SW/ACM-2080S	1.5	2	80X80		13	13	13	12.9	12.5	12	11.3	10.5	9.7	9.5			
ACM-2080S	1.5	2	80X80		13	13	13	12.9	12.5	12	11.3	10.5	9.7	9.5			
ACM-1080 LV	0.75	1	80x80		9.5	9.1	9	8.9	8.7	8.5	7.8	6.9	6.1	6			

PERFORMANCE CHART

2880 RPM, At Rated Voltage - Single Phase -220 - 240 Volts
Three Phase - 380 - 415 Volts, 50Hz, A.C. Supply.

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - ACM / ACM PRO Series

Model	kW	HP	Suction x Delivery in mm	m^3/hr	0	8	10	11	12	13	14	15	16	17	18	19	20
				lps	0	2.2	2.8	3.1	3.3	3.6	3.9	4.2	4.4	4.7	5	5.3	5.6
ACM-1050 LV	0.75	1	50x50	Head in Metres	15	13.9	13.5	13.4	13.2	12.9	12.6	12.2	11.8	11.4	11	10.5	10

Model	kW	HP	Suction x Delivery in mm	m^3/hr	0	8.4	8.6	9	14	15	22.5	24	25.6	28
				lps	0	2.3	2.4	2.5	3.9	4.2	6.3	6.7	7.1	7.8
ACM-A6N1 PRO	0.75	1	50x50	Head in Metres	14	14	14	13	12	12	10	9	8	8

Model	kW	HP	Suction x Delivery in mm	m^3/hr	0	10.8	14.4	18	21.6	25.2
				lps	0	3	4	5	6	7.1
S/ACM-6 SPL PRO	0.75	1	50x50	Head in Metres	13	12	12	11	10	8

Model	kW	HP	Suction x Delivery in mm	m^3/hr	0	10.8	14.4	18	21.6	25.2
				lps	0	3	4	5	6	7.1
S/ACM-A11 PRO	0.75	1	50x40	Head in Metres	13	12	12	11	10	8

Model	kW	HP	Suction x Delivery in mm	m^3/hr	0	2.2	2.59	3.78	4.18	4.16	5.4	6.12	6.8	7.6
				lps	0	0.61	0.72	1.05	1.16	1.28	1.5	1.7	1.9	2.1
T/ACM-2 PRO	0.37	0.5	25x25	Head in Metres	31	28	27	26	25	25	24	23	18	13

Model	kW	HP	Suction x Delivery in mm	m^3/hr	0	10.8	14.4	18	21.6	25.2
				lps	0	3	4	5	6	7
S/ACM 63	1.5	2	50x50	Head in Metres	23	21	20.5	19	16	10

DOUBLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - ADM Series

Model	Body	kW	HP	Stage	Suction x Delivery in mm	m^3/hr	0	3	4.8	6	7.2	8.4	9.6	10.8
						lps	0	0.8	1.3	1.7	2	2.3	2.7	3.0
ADM 5	CI	1.5	2	2	40x32	Head in Metres	60	54	47	41	36	31	23	15

* Marked pumpset are having ISI licence. WV - Wide voltage operation | LV - Low voltage operation | ES - Extension Shafts available | S - Sleek | H - High head

PERFORMANCE CHART

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - VIRAT / VIRAT PRO Series

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	1.37	2.20	2.59	3.78	4.18	4.61	5.40	6.12	6.84	7.56	8.28	9.00	9.72	10.44	11.16	11.88	12.60	13.32	Star Rating
					lps	0	0.38	0.61	0.72	1.05	1.16	1.28	1.50	1.70	1.90	2.10	2.30	2.50	2.70	2.90	3.10	3.30	3.50	3.70	
VIRAT 524	AL	0.37	0.5	25x25	Head in Metres	15	14	13	12.5	12	11	10	9	7	5										
VIRAT 525	AL	0.37	0.5	25x25		18		16	16	14	13	13	12												
VIRAT 525N/525NH	AL/CI	0.37	0.5	25x25		19	18	17	16	15	15	14	13	9	8										
VIRAT 525M/ES	AL	0.37	0.5	25x25		21		20	19	18	18	17													
VIRAT 525H*	AL	0.37	0.5	25x25		27		24	23	22	21	20	19												5
VIRAT 1025*	AL	0.75	1	25x25		33		31	30	29	28	28													5
VIRAT 1025HH*	AL	0.75	1	25x25		34		32	32	31	30	30	29												5
VIRAT 1025M*	AL	0.75	1	32x25		28				24	23	23	22	22	21	20	19	18	15	14					
VIRAT 1040*	CI	0.75	1	40x40		23								20	20	19	19	18	17	17	16	15	14	13	3

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	6.84	7.56	8.28	9.00	9.72	10.44	11.16	11.88	12.60	13.32
					lps	0	1.90	2.10	2.30	2.50	2.70	2.90	3.10	3.30	3.50	3.70
VIRAT 540 / ES	AL/CI	0.37	0.5	40x40	Head in Metres	15	13	13	12	12	12	11	11	10	10	7

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	4.50	6.80	7.31	7.60	8.21	8.39	8.57	9.00
					lps	0	1.25	1.89	2.03	2.11	2.28	2.33	2.38	2.50
VIRAT 1025H	AL	0.75	1	32x25	Head in Metres	33	30	29	29	28	28	27	27	26

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	1.37	2.20	2.59	3.78	4.18	4.61	5.40	6.12	6.84	7.56	8.28	9.00	9.72	10.44
					lps	0	0.38	0.61	0.72	1.05	1.16	1.28	1.50	1.70	1.90	2.10	2.30	2.50	2.70	2.90
VIRAT PRO 525N	AL/CI	0.37	0.5	25x25	Head in Metres	19	18	17	16	15	15	14	13	9	8					
VIRAT PRO 525M	AL	0.37	0.5	25x25		21		20	19	18	18	17								
VIRAT PRO 526	AL	0.37	0.5	25x25		18		16	16	14	13	13	12							
VIRAT PRO 1025#	AL	0.75	1	25x25		33		31	30	29	28	28								
VIRAT PRO 1025HH	AL	0.75	1	25x25		34		32	32	31	30	30	29							
VIRAT PRO 1025M	AL	0.75	1	32x25		28				24	23	23	22	22	21	20	19	18	15	14

Pro denoted models are copper-coated windings | # Marked models are available in CI / Noryl Impeller.

* Marked pumpset are having ISI licence | S - Sleek | H/HH - High Head | ES - Extension Shafts Available | Pro denoted models are copper-coated windings.

PERFORMANCE CHART

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPSET - VIRAT Series

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	4.50	6.80	7.31	7.60	8.21	8.39	8.57	9.00	14.04	14.98	22.50	23.98	25.60	28.01	29.99
					lps	0	1.25	1.89	2.03	2.11	2.28	2.33	2.38	2.50	3.90	4.16	6.25	6.66	7.11	7.78	8.33
VIRAT 1025H	AL	0.75	1	32x25	Head in Metres	33	30	29	29	28	28	27	27	26							
VIRAT 1050* / ES	CI	0.75	1	50x50		14							14	13	12	12	10	9	8	8	7
VIRAT 1525H	AL	1.1	1.5	32x25		34	31	30	29	29	29	29	28	28							
VIRAT 1550M	CI	1.1	1.5	65x50		15								14	13	13	10	10	9	8	8
VIRAT 1550	CI	1.1	1.5	50x50		14			14					14	13	12	10	9	9	6	

Model	Body	kW	HP	Suction x Delivery in mm	m^3/hr	0	10.80	14.40	18.00	21.60	25.20
					lps	0	3.00	4.00	5.00	6.00	7.00
VIRAT 2050M*	CI	1.5	2	50x50	Head in Metres	23	21	20	18	15	9

ACM - MATERIAL OF CONSTRUCTION - PUMPSET

Part Name	Material
Rear Cover / Bracket	Cast Iron
Motor Frame	Cast Iron / Aluminium
Shaft	SS 410
Impeller	Cast Iron / SS 304 / Noryl
Pump Casing	Cast Iron
Mechanical Seal	Carbon & Ceramic

VIRAT - MATERIAL OF CONSTRUCTION - PUMPSET

Part Name	Material
Pump Casing	Cast Iron
Impeller	Cast Iron & Noryl
Front Bracket	Cast Iron
Motor Frame	Cast Iron & Aluminium
Back Cover	Cast Iron & Aluminium
Mechanical Seal	Carbon & Ceramic
Cooling Fan	Polypropylene
Cooling Fan Cover	Mild Steel

* Marked pumpset are having ISI licence. WV - Wide voltage operation | LV - Low voltage operation | ES - Extension Shafts available | S - Sleek | H - High head

* Marked pumpset are having ISI licence. ES - Extension Shafts available | DF - Dual Flange | HH - High head

AGRICULTURAL ACCESSORIES

FLAT CABLES



Available Size

1.0 mm^2 to 50 mm^2

CONTROL PANEL



Power Range	: 0.5 HP to 2 HP
Rated Operational Voltage	: 240V, 50Hz Supply
Contactor	: 2 pole

AIR BREAK MOTOR STARTER







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

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

AGRICULTURAL PIPES



Available Size

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



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