



C.R.I. PUMPS
Pumping trust. Worldwide.



AGRICULTURAL PUMPS



150mm Borewell Submersible Pumpsets BINDA 6D+ Series

Motor: C.R.I. 150 mm Borewell Submersible pumpsets are powered by water filled, rewindable submersible motor which is suitable for continuous duty. The stator is wound with special waterproof synthetic film insulated copper winding wires and made up of low watt loss silicon steel laminations assembled under pressure and rigidly locked in stainless steel stator shell. T-Bolt design in all motors ensures rigid construction.

Pump: C.R.I.'s new double depth BINDA 6D+ 150 mm 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

Power range	2.2kW - 18.5kW (3HP - 25HP)
Speed	2990 RPM
Version	Single phase 200-240V; Three phase 380 - 415V, 50Hz AC Supply
Maximum total head	500 Metre
Maximum flow rate	20 lps (72 m ³ /hr)
Degree of protection	IP 58
Maximum outer diameter	146 mm
Direction of rotation	Electrically Reversible & Counter Clockwise from driving end
Thrust load	3500 lbs - upto 4.5kW; 6000 lbs - 5.5kW to 18.5kW
Class of insulation	A & B Class
Type of duty	S1 (Continuous)
Method of starting	3Ph - Direct Online (D.O.L) / Star Delta (SD)
Nominal outlet size	50, 65, 80, 100 mm

Double
Depth
working

Carbon
Teflon
Pads

SS 410
Impeller



PERFORMANCE CHART

150mm BOREWELL SUBMERSIBLE PUMPSET - BINDA 6D+ Series

2900 RPM, At Rated Voltage – Single Phase 240 Volts, 50Hz, A.C. Supply, Three Phase 415 Volts, 50Hz, A.C. Supply.

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	DISCHARGE									
						0	2	3	4	5	6	7	8	9	10
						0	0.55	0.83	1.11	1.39	1.67	1.94	2.22	2.50	2.77
WC6BI-6/3/06*	2.2	3	6	50	Head in Metres	90	89	88	87	83	75	66	56	42	30
WC6BI-6/5/10*	3.7	5	10	50		148	147	145	140	132	120	104	88	67	46
WC6BI-6/6/12*	4.5	6	12	50		176	175	173	169	163	152	137	118	96	68
WC6BI-6/7.5/15*	5.5	7.5	15	50		222	220	218	211	200	181	160	136	102	72
WC6BI-6/10/20*	7.5	10	20	50		295	289	284	277	264	248	224	191	152	112
WC6BI-6/12.5/24	9.3	12.5	24	50		360	352	346	336	322	298	262	222	168	121

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	DISCHARGE											Star Rating	
						0	2	3	4	5	6	7	8	9	10	11		12
						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/6/10*	4.5	6	10	50		150	148	146	143	138	131	121	108	99	72	51	28	2 Star
WC6BI-7B/7.5/12*	5.5	7.5	12	50		181	179	176	175	169	159	149	133	115	92	64	34	
WC6BI-7B/10/16*	7.5	10	16	50		242	240	238	232	225	214	200	178	152	120	82	45	
WC6BI-7B/12.5/20	9.3	12.5	20	50		304	301	298	293	285	272	254	224	192	152	107	54	
WC6BI-7B/15/23	11	15	23	50		347	344	340	334	325	312	290	258	218	175	121	62	
WC6BI-7B/17.5/30	13	17.5	30	50		447	432	424	413	396	376	346	312	264	210	152	74	

LV design also available (180-415V)

PERFORMANCE CHART

150mm BOREWELL SUBMERSIBLE PUMPSET - BINDA 6D+ Series

2900 RPM, At Rated Voltage – Single Phase 240 Volts, 50Hz, A.C. Supply, Three Phase 415 Volts, 50Hz, A.C. Supply.

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

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	DISCHARGE									Star Rating	
						0	4	6	8	10	12	14	16	18		20
						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-10/5/05*	3.7	5	5	65		85	83	82	81	77	71	63	53	41	28	3 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-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	



PERFORMANCE CHART

150mm BOREWELL SUBMERSIBLE PUMPSET - BINDA 6D+ Series

2900 RPM, At Rated Voltage – Single Phase 240 Volts, 50Hz, A.C. Supply, Three Phase 415 Volts, 50Hz, A.C. Supply.

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	RADIAL FLOW													Star Rating
						DISCHARGE													
						0	6	8	10	12	14	16	18	20	22	24	26		
					lps	0	1.67	2.22	2.77	3.33	3.88	4.40	5.00	5.55	6.11	6.66	7.22		
WC6BI-15/5/04*	3.7	5	4	65	Head in Metres	68	67	66	65	63	61	57	54	47	40	32	24	2 Star	
WC6BI-15/6/05*	4.5	6	5	65		87	85	84	82	79	75	69	63	56	47	39	26	2 Star	
WC6BI-15/7.5/06*	5.5	7.5	6	65		104	102	99	97	94	90	84	77	69	57	48	36	3 Star	
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		
WC6BI-15/20/16	15	20	16	65		275	272	269	262	252	234	216	194	174	145	115	84		
WC6BI-15/25/20*	18.5	25	20	65		350	339	333	326	317	304	286	261	235	198	162	126		

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	RADIAL FLOW													Star Rating
						DISCHARGE													
						0	10	12	16	18	20	22	24	26	28	30	32		
					lps	0	2.77	3.33	4.40	5.00	5.55	6.11	6.66	7.22	7.77	8.33	8.88		
WC6BI-20/5/03*	3.7	5	3	65	Head in Metres	48	47	46	43	41	39	37	33	29	24	20	16	3 Star	
WC6BI-20/6/04*	4.5	6	4	65		64	63	61	58	56	52	48	44	39	34	28	21	2 Star	
WC6BI-20/7.5/05*	5.5	7.5	5	65		80	79	78	73	69	65	60	56	50	42	38	25	3 Star	
WC6BI-20/10/07*	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		

PERFORMANCE CHART

150mm BOREWELL SUBMERSIBLE PUMPSET - BINDA 6D+ Series

2900 RPM, At Rated Voltage – Single Phase 240 Volts, 50Hz, A.C. Supply, Three Phase 415 Volts, 50Hz, A.C. Supply.

																	RADIAL FLOW	
Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	DISCHARGE												
						0	16	18	20	22	25	28	30	32	34	36	38	
					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	
WC6BI-25/10/05*	7.5	10	5	65		82	77	76	74	72	68	61	56	51	44	36	28	
WC6BI-25/12.5/06*	9.3	12.5	6	65		98	95	93	90	88	83	75	69	63	55	46	36	
WC6BI-25/15/08*	11	15	8	65		132	129	127	123	120	112	103	96	86	76	64	52	
WC6BI-25/17.5/09*	13	17.5	9	65		147	143	139	135	131	123	112	104	93	82	70	56	
WC6BI-25/20/10*	15	20	10	65		164	157	153	148	143	135	124	116	104	92	80	62	
WC6BI-25/25/13*	18.5	25	13	65		215	205	200	195	188	179	164	153	139	120	104	82	

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	DISCHARGE													
						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
WC6BM-48/7.5/4 SM63N/7.5/4	5.5	7.5	4	80	Head in Metres	52	45	43	41	39	37	34	32	30	27	25	21	18	16
WC6BM-48/12.5/6 SM63N/12.5/6	9.3	12.5	6	80		77	68	66	63	60	56	53	49	46	42	37	32	27	25
WC6BM-48/15/8 SM63N/15/8	11	15	8	80		102	90	87	82	78	74	69	64	60	55	49	43	36	32
WC6BM-48/17.5/9 SM63N/17.5/9	13	17.5	9	80		111	100	96	92	87	82	77	72	67	61	55	48	40	37
WC6BM-48/20/10* SM63N/20/10	15	20	10	80		125	111	106	101	96	91	86	81	75	69	62	54	45	41
WC6BM-48/25/12 SM63N/25/12	18.5	25	12	80		153	137	132	126	120	113	106	99	92	84	75	65	55	51
WC6BM-48/30/15 SM63N/30/15	22	30	15	80		187	170	163	156	149	141	134	125	116	107	97	86	75	70



PERFORMANCE CHART

150mm BOREWELL SUBMERSIBLE PUMPSET - BINDA 6D+ Series

2900 RPM, At Rated Voltage – Single Phase 240 Volts, 50Hz, A.C. Supply, Three Phase 415 Volts, 50Hz, A.C. Supply.

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	2	3	4	5	6	7	8	9	10
					DISCHARGE	0	0.55	0.83	1.11	1.39	1.67	1.94	2.22	2.5	2.77
WC6BI-6/5/12 (SPL)	3.7	5	12	50	Head in Metres	176	175	173	169	163	152	137	118	96	68
WC6BI-6/7.5/20 (SPL)	5.5	7.5	20	50	Head in Metres	295	289	284	277	264	248	224	191	152	112

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr	0	6	8	10	12	14	16	18	20	22	24	26
					DISCHARGE	0	1.67	2.22	2.77	3.33	3.88	4.4	5	5.55	6.11	6.66	7.22
WC6BI-15/7.5/08 (SPL)	5.5	7.5	8	65	Head in Metres	136	135	132	129	125	117	108	96	84	70	56	41

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
					DISCHARGE	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	Head in Metres	55	50	48	46	43	40	38	37	36	32	29	25

PERFORMANCE CHART

150mm BOREWELL SUBMERSIBLE PUMPSET - BINDA 6D+ Series

2900 RPM, At Rated Voltage – Single Phase 240 Volts, 50Hz, A.C. Supply, Three Phase 415 Volts, 50Hz, A.C. Supply.

MATERIAL OF CONSTRUCTION - PUMP

Part Name	Materials
Suction Housing	Cast Iron with SS 304 / SS 410 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

MATERIAL OF CONSTRUCTION - MOTOR

Part Name	Materials
Upper & Lower Housing	Cast Iron
Stator Shell	Stainless steel
Shaft	SS 410 & EN-9 with 304
Journal Bushes	LTB - 4 & Carbon
Thrust Pad	SS 420 & Graphite carbon
Diaphragm	High Nitrile butyl rubber



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