



C.R.I. PUMPS

Pumping trust. Worldwide.



STEELIX4

100mm Borewell Submersible Pumpsets

STEELIX 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

APPLICATIONS : • 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	2900 RPM
Version	230V Single – Phase; 50Hz, AC supply 380 – 415V Three – Phase; 50Hz, AC supply
Maximum total head	487 metre
Maximum flow rate	Upto 3.05 lps (11 m³/hr)
Nominal outlet size	32, 40 & 50mm
Degree of protection	IP 58
Maximum outer diameter	97 mm
Direction of rotation	Single Phase - Counter Clockwise from driving end Three Phase - Electrically reversible
Minimum cooling flow along the motor	0.15 m /sec
Type of duty	S1 (Continuous)
Method of starting	Single Phase - Capacitor Start Capacitor Run; Three Phase - DOL / SD
Maximum starts per hour	20 times

PERFORMANCE CHART

STEELIX SERIES

2900 RPM, At Rated Voltage – Single Phase 230 Volts, Three Phase 380 / 415 Volts, 50 Hz, A.C. Supply

100mm BOREWELL SUBMERSIBLE PUMPSETS

Maximum Outer Diameter : 97mm

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m³/hr lps	0	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.7
						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-1/1.0/28	0.75	1	28	32	Head in Metres	165	148	135	123	108	90	69	47	35
WA4AS-1/1.5/36	1.1	1.5	36	32	Head in Metres	198	182	165	145	123	102	80	54	41

Model	kW	HP	Stage	Outlet Size in mm	m³/hr lps	0	0.6	1.0	1.4	1.8	2.0	2.2	2.6
						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	54	49	45	40	35	30	25	19
WA4AS-2/0.75/15	0.55	0.75	15	32	Head in Metres	90	82	78	70	60	57	48	38
WA4AS-2/1/18	0.75	1	18	32	Head in Metres	120	115	102	92	80	72	63	50
WA4AS-2/1.5/23	1.1	1.5	23	32	Head in Metres	145	140	128	113	93	82	71	57
WA4BS/WC4BS-2/2/28	1.5	2	28	32	Head in Metres	180	172	160	142	121	110	98	77
WA4BS-2/2/33	1.5	2	33	32	Head in Metres	215	199	183	165	140	124	108	82
WC4BS-2/3/40	2.2	3	40	32	Head in Metres	249	232	218	195	165	144	127	92

Model	kW	HP	Stage	Outlet Size in mm	m³/hr lps	0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
						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	54	52	50	48	42	35	27	15
WA4AS-3/1/12	0.75	1	12	32	Head in Metres	75	69	65	60	54	45	33	20
WA4AS-3/1.5/15	1.1	1.5	15	32	Head in Metres	98	90	86	80	72	60	45	28
WA4AS-3/1.5/18	1.1	1.5	18	32	Head in Metres	110	106	102	95	86	73	52	34
WA4BS-3/2/22	1.5	2	22	32	Head in Metres	145	140	130	120	105	88	65	40
WA4BS/WC4BS-3/2/25	1.5	2	25	32	Head in Metres	168	159	148	134	117	99	74	45
WC4BS-3/3/29	2.2	3	29	32	Head in Metres	190	181	170	159	140	117	89.5	50
WC4BS-3/5/52	3.7	5	52	32	Head in Metres	330	303	290	272	244	206	162	103
WC4BS-3/5/60	3.7	5	60	32	Head in Metres	384	345	328	304	274	228	180	110



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Maximum Outer Diameter : 97mm

RADIAL FLOW

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	2	3	4	5	6	7
WA4AS-5/1/8	0.75	1	8	40	Head in Metres	0	0.55	0.83	1.10	1.39	1.66	1.94
WA4AS-5/1.5/12	1.1	1.5	12	40		46	42.5	40	37	32	23	15
WA4BS/WC4BS -5/2/17	1.5	2	17	40		75	71	65	57	48	38	24
WC4BS-5/3/25	2.2	3	25	40		108	94	88	80	68	51	33
WC4BS-5/5/38	3.7	5	38	40		162	143	131	119	102	77	53
WC4BS-5/5/44	3.7	5	44	40		241	215	198	177	152	119	81
WC4BS-5/7.5/52	5.5	7.5	52	40		280	244	223	199	170	134	92
WC4BS-5/7.5/60	5.5	7.5	60	40		324	281	258	230	199	156	108
WC4BS-5/10/75	7.5	10	75	40		360	322	300	262	236	190	130
						487	427	392	352	302	237	168

Model	kW	HP	Stage	Outlet Size in mm	m ³ /hr lps	0	3	4	5	6	7	8	9	10	11
WA4BS/WC4BS-8/2/10	1.5	2	10	50	Head in Metres	0	0.83	1.11	1.39	1.66	1.94	2.22	2.50	2.78	3.05
WC4BS-8/3/12	2.2	3	12	50		63	55	52	50	48	44	40	35	60	24
WC4BS-8/3/15	2.2	3	15	50		74	69	67	65	61	56	51	45	37	28
WC4BS-8/4/18	3	4	18	50		94	86	83	79	75	69	63	55	47	36
WC4BS-8/5/22	3.7	5	22	50		112	107	103	99	94	87	79	69	57	44
WC4BS-8/5/25	3.7	5	25	50		136	129	124	117	110	102	93	82	69	54
WC4BS-8/5/25	3.7	5	25	50		155	142	136	130	124	116	106	94	79	63
WC4BS-8/7.5/37	5.5	7.5	37	50		230	204	195	185	173	162	146	131	112	89

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

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


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