



C.R.I. PUMPS
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AGRICULTURAL PUMPS

RYKER
 Kisan ka DOST

Openwell Submersible Pumpsets CSM, CV & CSM-J Series



CRI Openwell Submersible Pumpsets 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. 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. 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.

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.

APPLICATION

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



SPECIFICATIONS

Power Range	2.2 kW - 15 kW (3HP - 20HP)
Speed	2900 rpm
Version	Single phase - 200-240V; Three phase - 380 - 415V, 50Hz AC Supply
Maximum total head	153 metre
Maximum flow rate	54 lps (194 m3/h)
Degree of protection	IP 58
Direction of rotation	Electrically Reversible
Method of starting	Direct On line (D.O.L), Star Delta(SD)
Type of duty	S1 (Continuous)
Normal delivery size	50, 65, 80,100 & 125 mm
Maximum starts per hour	10 times

**Heavy Duty
Design**

**Higher
Cooling
Motor**

**Wide Voltage
Operation**



PERFORMANCE CHART

HORIZONTAL OPENWELL SUBMERSIBLE PUMPSETS - CSM Series

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

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

Model	Body	kW	HP	Outlet Size in mm	m ³ /hr lps	DISCHARGE																	Star Rating		
						0	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		23	
						Head in Metres																			
						0	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
CSM-19*	SS/MS	2.2	3	65		18.5	18	17.5	17	16	15	14	13	12	10	9	7								4 Star
CSM19-N	CI	2.2	3	65		18.5	18	17.5	17	16	15	14	13	12	10	9	7								
5CSM-4*	SS/CI	3.7	5	65		27				26.5	26	25	24	23	22	21	19	18	16	14	12				4 Star

PERFORMANCE CHART

HORIZONTAL OPENWELL SUBMERSIBLE PUMPSETS - CSM Series

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

Model	Body	kW	HP	Outlet Size in mm	m ³ /hr lps	DISCHARGE																	
						0	25.2	28.8	32.4	36	39.6	43.2	46.8	50.4	54	57.6	61.2	64.8	68.4	72	75.6	79.2	82.8
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	Head in Metres	64.5		64		63.5	63	62	61	60.5	60	59	58.5	58	57	55	53	50	38

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

Model	Body	kW	HP	Outlet Size in mm	m ³ /hr lps	DISCHARGE																					
						0	58	72	79	83	86	90	94	97	101	104	108	115	122	130	137	144	151	158	173	187	194
CSM-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	SS	5.5	7.5	100		26	22	20	19	18	17.8	17.5	17	16.5	16	15	14	13	11	10	8						
CSM-41	CI	15	20	100		37	36	35.8	35.5	35.2	35	34.8	34.5	34.2	34	33.5	33	32.5	32	31.5	31	30	29.5	29	27	25	24

Model	Body	kW	HP	Outlet Size in mm	m ³ /hr lps	DISCHARGE																				
						0	58	72	79	83	86	90	94	97	101	104	108	115	122	130	137					
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		26	22	20	19	18	17.8	17.5	17	16.5	16	15	14	13	11	10	8					

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



PERFORMANCE CHART

HORIZONTAL OPENWELL SUBMERSIBLE PUMPSETS - Ryker Series

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

Model	Body	kW	HP	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	61.2	Star Rating	
					lps	0	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	25.5	25	24	23	21.5	20	18.5	17	14.5						5 Star
RYKER-550	CI	3.7	5	50	Head in Metres	38		36	35	33	31	28	25	21								
RYKER-551	CI	3.7	5	50	Head in Metres	43	41	40	39	37.5	34.5	27										
RYKER-750	CI	5.5	7.5	50	Head in Metres	42					41	40	38.5	37	35.5	34.5	32.5	31	29	27		

Model	Body	kW	HP	Outlet Size in mm	m ³ /hr	0	18	21.6	25.2	28.8	32.4	36	39.6	43.2	46.8	50.4	54	57.6	61.2	64.8	Star Rating	
					lps	0	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
RYKER-365	CI	2.2	3	65	Head in Metres	23		21	20.5	20	19.5	19	18	17.5	16.5	16	15	14	13			5 Star
RYKER-565	CI	3.7	5.0	65	Head in Metres	28				26	25	24	23	22	20.5	19	17.5	16	14			

Model	Body	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
					lps	0	8	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
RYKER-765	CI	5.5	7.5	65	Head in Metres	35	34	33	32	31.5	31	30	29.5	28.5	27.5	26	25	24	23	22	21	20	19	18	17	15.5

Model	Body	kW	HP	Outlet Size in mm	m ³ /hr	0	32	36	40	43	47	50	54	58	61	65	68	72	76	79	83
					lps	0	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
RYKER-950	CI	7.5	10	50	Head in Metres	47	46.5	46	45.5	45	44	43.5	42.5	42	41	39.5	38	37	35	33	32

PERFORMANCE CHART

VERTICAL OPENWELL SUBMERSIBLE PUMPSETS - CV Series

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

Model	Body	kW	HP	Stage	Outlet Size in mm	DISCHARGE																Star Rating
						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		
						lps	0	4	5	6	7	8	9	10	11	12	13	14	15	16		
CV-0 HD	CI	2.2	3	2	65/80	Head in Metres	40.5	39.5	39	37.5	35.5	33	29	25.5	21.5	17.5	13	6.5				
CV-1*	CI	3.7	5	2	65/80		44	43	42	40	38	36	33	29	25	20	15	10				
CV-1HD	CI	3.7	5	2	65/80		49	46.5	45	44	43	41	38	35	32	28.5	25	20.5	13			
CV-13	CI	3.7	5	3	65/80		62	54	51	47	43	37	31	24	17							
CV-3*	CI	5.5	7.5	2	65/80		52	50	48	46	44	43	41	40	37	34	29	20				
CV-33*	CI	5.5	7.5	3	65/80		62	60	59	59	55	50	45	39	33	26	18				2 star	
CV-35*	CI	5.5	7.5	5	65/80		91	77	72	65	57	47	35	22								
CV-44*	CI	7.5	10	4	65/80		93	90	88	86	82	77	71	63	54	45	33	22				
CV-46*	CI	7.5	10	6	65/80		103	98	95	93	85	75	65	53	40	24						
CV-54	CI	9.3	12.5	4	65/80		96	94	90	86	81	77	72	68	61	54	46	33	18			
CV-56*	CI	9.3	12.5	6	65/80		126	122	118	112	106	98	88	77	65	49	32	10			2 star	
CV-66*	CI	11	15	6	65/80		141	134	131	127	121	114	105	94	80	63	44	22				
CV-74	CI	15	20	4	65/80		116	110	108	105	102	98	94	90	85	80	73	65	52	20		
CV-76*	CI	15	20	6	65/80		153	134	132	129	126	122	118	112	104	94	82	66	48	25		

MATERIAL OF CONSTRUCTION - PUMPSET	
Part Name	Material
Rear cover / Bracket	Cast iron
Stator shell	Cast iron
Shaft	SS 410 / EN - 8
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



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