



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



## Deepwell Centrifugal Jet Pumpsets AJ & BP Series

C.R.I. Deep well Jet Centrifugal Pumpsets volute chamber and impellers are designed to give the best possible hydraulic efficiency and suction lift characteristics. These Pumpsets are powered by a totally enclosed fan cooled (TEFC) and screen protected drip proof (SPDP), AC induction two pole motor, suitable for continuous duty. Motor stator is made of low watt loss ferro silicon steel laminations. The winding are of high grade enameled copper wire and are varnish impregnated. 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.

C.R.I. Deep well Jet Centrifugal pumpsets are available in twin type and packer type versions. Twin type is suitable for borewells with a diameter of 75mm and above. In twin type jet Pumpsets, there are two pipes viz. suction pipe and pressure pipe which connects the jet assembly to the pump. Pressurized water flows through the pressure pipe to the nozzle from the pump casing. Water sucked through the foot valve and the water passing through the nozzle mix together and flow through the suction pipe into the pump. Packer type jet pump is suitable for 50mm and 75mm borewells. The casing of tube well does the function of pressure pipe, i.e. Pressurized water flows through the tube well casing and enters the nozzle. Hence one pipe is eliminated.



### SALIENT FEATURES

- Good suction lift characteristics
- High operating efficiency resulting in lower power consumption
- Inbuilt thermal over load protector
- The pumpset can be installed both in horizontal and vertical position
- Available in CI, Bronze and Noryl Impellers
- Available in Aluminium & CI Frame motor body

APPLICATIONS : • Domestic • Farms • Gardens • Civil applications

## SPECIFICATIONS

### AJ & BP SERIES

Power range	0.37 kW - 1.5 kW (0.5HP - 2HP)
Speed	2880 RPM
Version	Single phase 220 - 240V; Three phase 380 - 415V, 50HZ AC Supply
Maximum suction lift/ head	92 metre
Maximum flow rate	50 lpm (3 m <sup>3</sup> /hr)
Degree of protection	IP 44/ IP 54
Class of insulation	B
Direction of rotation	1Ph - Clockwise from driving end, (A18, A19, A40, A41) - CCW from driving end Three phase - Electrically Reversible
Type of duty	S1 (Continuous)
Method of starting	Permanent Split Capacitor (PSC)
Nominal pumpset size (S x P x D)	32 x 25 x 25 & 40 x 32 x 25 mm

## PERFORMANCE CHART

### AJ SERIES

#### SINGLE STAGE CENTRIFUGAL JET PUMPSETS

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

Model	Body	kW	HP	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	DISCHARGE											
					Suction	Press-ure	Delivery		m <sup>3</sup> /hr	0.39	0.49	0.60	0.79	1.00	1.39	1.80	2.20	2.59	3.00	
									lpm	6.65	8.27	10	13.33	16.67	23.33	30	36.67	43.33	50	
A5/AJ5*	AL/CI	0.37	0.5	100	32	25	25	13.7	Head in Metres	31	29	27	23	21	16					
A6/AJ2*	CI	0.75	1	100	32	25	25	15.2				32	30	25	20	14				
A6/AJ9*	CI	0.75	1	100	32	25	25	15.2		41	39	35	31	26	22					
A25/AJ2*	AL	0.75	1	100	32	25	25	15.2		36	34	33	30	28	22	17	13			
A25/AJ9*	AL	0.75	1	100	32	25	25	15.2		42	39	36	31	25	15					
A26/AJ7*	AL	0.75	1	115	40	32	25	15.2		25	25	24	23	22	20	18	16	14	13	
A9/AJ9	AL	1.1	1.5	100	32	25	25	15.2		52	48	45	39	22						

### AJ SERIES DOUBLE STAGE CENTRIFUGAL JET PUMPSETS - HORIZONTAL MODEL

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

Model	Body	kW	HP	No. of Stages	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	DISCHARGE																
						Suction	Press-ure	Delivery		m <sup>3</sup> /hr	0.30	0.35	0.40	0.44	0.45	0.46	0.49	0.55	0.58	0.60	0.62	0.64	0.65	0.66	0.68	0.70
									lpm	5	5.83	6.67	7.33	7.5	7.67	8.33	9.17	9.67	10	10.33	10.67	10.83	11	11.33	11.67	
A40/AJ1	CI	1.1	1.5	2	100	32	25	25	16.8	Head in Metres	85	82	76	73	71	71	69	68	66	64	63	62	60	58	57	56
A18/AJ1	CI	1.5	2	2	100	32	25	25	16.8	92	89	85	82	81	79	78	74	72	71	70	69	66	65	62	52	37

Model	Body	kW	HP	No. of Stages	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	DISCHARGE															
						Suction	Press-ure	Delivery		m <sup>3</sup> /hr	0.14	0.16	0.17	0.18	0.20	0.23	0.25	0.27	0.28	0.29	0.31	0.32	0.33	0.35	0.38
									lpm	8.3	9.7	10.3	11.0	12.2	13.7	15.0	16.2	16.7	17.5	18.3	19.2	20.0	20.8	22.5	
A18/AJ9	CI	1.5	2	2	100	32	25	25	55	Head in Metres	73	68	64	61	58	55	52	49	46	43	40	37	35	33	28

Model	Body	kW	HP	No. of Stages	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	DISCHARGE											
						Suction	Press-ure	Delivery		m <sup>3</sup> /hr	0.14	0.22	0.30	0.35	0.42	0.53	0.61	0.73	0.82	0.92	1.03
									lpm	2.38	3.67	5.07	5.82	6.95	8.77	10.12	12.2	13.67	15.25	17.17	
A40S/AJ9	CI	1.1	1.5	2	100	32	25	25	15.2	Head in Metres	54	51.5	49	48	46	42	39	35	33	30	23

\* Marked pumpsets are having ISI licence CI - Cast Iron AL - Aluminium Motor Body



# PERFORMANCE CHART

## AJ SERIES DOUBLE STAGE CENTRIFUGAL JET PUMPSETS - HORIZONTAL MODEL

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

Model	Body	kW	HP	No. of Stages	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	DISCHARGE											
						Suction	Pressure	Delivery		m <sup>3</sup> /hr	0.49	0.54	0.60	0.66	0.72	0.79	0.84	0.90	1.00	1.09	1.16
A40/AJ9*	CI	1.1	1.5	2	100	32	25	25	16.8	lpm	8.33	9	10	11	12	13.33	14	15	16.67	18.33	19.33
									Head in Metres		61	58	56	54	51	49	47	43	39	25	16

Model	Body	kW	HP	No. of Stages	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	DISCHARGE												
						Suction	Pressure	Delivery		m <sup>3</sup> /hr	0.33	0.38	0.40	0.46	0.54	0.60	0.65	0.68	0.70	0.72	0.73	0.75
A10N/AJ1	CI/AL	0.75	1	2	100	32	25	25	15.2	lpm	5.5	6.33	6.67	7.67	9	10	10.83	11.33	11.67	12	12.17	12.5
									Head in Metres		60	57	55	52	47	45	41	40	37	36	34	28

Model	Body	kW	HP	No. of Stages	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	DISCHARGE												
						Suction	Pressure	Delivery		m <sup>3</sup> /hr	0.35	0.45	0.55	0.70	0.79	0.90	1.02	1.08	1.09			
A10N/AJ9	CI	0.75	1	2	100	32	25	25	15.2	lpm	5.82	7.5	9.17	11.67	13.33	15	17	18	18.33			
									Head in Metres		53	47	44	38	35	33	30	27	21			

Model	Body	kW	HP	No. of Stages	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	DISCHARGE														
						Suction	Pressure	Delivery		m <sup>3</sup> /hr	0.72	0.79	0.86	0.94	1.01	1.08	1.15	1.22	1.3	1.37	1.44	1.51	1.62	1.73
A10N/AJ1(LH)	CI	0.75	1	1	100	32	25	25	50	lpm	12	13.2	14.4	15.6	16.8	18	19.2	20.4	21.6	22.8	24	25.2	27	28.8
									Head in Metres		37	35	34	33	32	30	29	28	27	27	26	24	19	11

\* Marked pumpsets are having ISI licence      LH - Low Head   CI - Cast Iron   AL - Aluminium Motor Body

## SPDP SERIES CENTRIFUGAL JET PUMPSETS - HORIZONTAL MODEL

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

Model	Body	kW	HP	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	DISCHARGE													
					Suction	Pressure	Delivery		m <sup>3</sup> /hr	0.25	0.35	0.49	0.54	0.63	0.70	0.85	0.92	0.94	0.98			
A10/AJ10	AL	0.75	1	100	32	25	25	15.2	lpm	4.17	5.83	8.17	9.00	10.12	11.67	14.17	15.33	15.67	16.33			
								Head in Metres		58	55	49	46	43	40	37	33	30	28			

Model	Body	kW	HP	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	DISCHARGE													
					Suction	Pressure	Delivery		m <sup>3</sup> /hr	0.39	0.49	0.60	0.79	1.00	1.39	1.80	2.20	2.59	3.00			
A12/AJ2S	SS	0.75	1	100	32	25	25	15.2	lpm	6.65	8.27	10	13.33	16.67	23.33	30	36.67	43.33	50			
								Head in Metres			33	30	28	23	18	6						

\* Marked pumpsets are having ISI licence      CI - Cast Iron   AL - Aluminium Motor Body   SS - Stainless Steel

# PERFORMANCE CHART

## BP SERIES

## SINGLE STAGE CENTRIFUGAL JET PUMPSETS

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

### PACKER TYPE

Model	Body	kW	HP	Min. Bore Dia in mm	Pipe Size in mm			Delivery Head in mtrs	m <sup>3</sup> /hr	DISCHARGE							
					Suction	Pressure	Delivery			0	0.39	0.49	0.60	0.79	1.00	1.39	1.80
									lpm	0	6.65	8.27	10	13.33	16.67	23.33	30
BP8/2	CI/AL	0.75	1	50	32	25	25	15.2	Head in Metres	32	27	25	24	21	20	16	13
BP9/2	AL	0.75	1	50	32	25	25	15.2		45	33	31	28	22	18		
BP8/3	AL	0.75	1	80	40	32	25	15.2		54	30	29	28	26	24	21	17

\* Marked pumpsets are having ISI licence CI - Cast Iron AL - Aluminium Motor Body SS - Stainless Steel

### MATERIAL OF CONSTRUCTION - PUMPSET

Part Name	Material
Pump Casing	Cast Iron
Bracket / Rear Cover	Cast Iron
Impeller	Cast Iron / Bronze / Noryl
Motor Frame	Cast Iron / Aluminium / Mild Steel / SS
Shaft	SS 410
Mechanical Seal	Carbon & Ceramic
Jet Assembly	Gun metal



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

In view of continuous developments, the information / performance / descriptions / specifications / illustrations mentioned in this catalogue are subject to change without notice. A&R / Residential Flyer / Oct '21.