



Smart solutions.
Strong relationships.

3VO & 4VO SERIES

75 MM & 100 MM OIL FILLED SUBMERSIBLE PUMPSETS



Features :

Motor :

- Energy Efficient - Saves Power & Electricity Bills
- Speed : 3000 RPM (Synchronous)
- Totally enclosed Oil filled, squirrel cage induction motor
- Cap. Start & Run (PSC), for AC Supply - Better starting torque at lower voltage
- Stainless steel stator body - Rust preventive
- Special super enameled high quality copper winding wire
- Stainless steel rotor shaft - Rust preventive & longer life
- Dynamically balanced rotor - Vibration free, longer life & better efficiency
- High quality ball bearings for longer life and less friction
- Motor is prefilled with Motorola potable RL oil
- Ease in winding serviceability

Pump :

- Corrosion and abrasion resistant parts are made of stainless steel, high strength engineering polymers and special alloy materials
- Designed for optimum efficiency - Energy saver
- Modular construction - Ease in assembly and dismantling
- NRV fitted in discharge outlet to prevent backflow
- Impeller & diffuser - Glass filled engineering plastics, thus more efficient and consistent in performance

General :

- Better design, Better Efficiency, Low Power Consumption
- Light weight - Ease in installation
- Silent running
- Reliable in Operation

Applications :

- Irrigation and Drip irrigation
- Sprinkler, Gardening, Nursery, Bungalows and Apartments
- High story buildings, Complexes, Resorts and Hotels
- Small Farms
- Ornamental Fountains
- Industrial water supply schemes

Standard Specifications :

- Suitable for 75 / 100 mm or bigger borewell
- **Range :**
75 mm Borewell : 0.37kW-0.94 kW (0.5HP-1.25 HP)
100 mm Borewell : 1 Phase, 0.37kW- 1.5kW (0.5HP- 2.0HP)
- **Speed :** 2880 RPM (Syn.)
- **Total Head Range :** 75 mm Upto 97 Metres, 100 mm Upto 132 Metres
- **Capacity :** 75 mm-Upto 84 LPM, 100 mm-Upto 120 LPM. Discharge Outlet Size- 32 mm to 38 mm
- **Motor :** Oil filled electric induction motor for 220 volts, 50 Hz, AC for 1 Phase supply
- **Max outer dia :** 77 mm & 96.5 mm
- **Voltage Band :** 180 to 240 volts

Crompton Greaves offers a wide range of oil filled submersible pumpsets suitable for 75 mm & 100 mm borewell. Crompton Greaves oil filled submersible pumpsets are specially designed, with the use of latest manufacturing techniques, to meet the water requirements of the different needs in Domestic & Agriculture use.

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Performance Chart for 75 mm BOREWELL SUBMERSIBLE Pumpset at 230 volts, 50 Hz AC Supply

Minimum Bore Diameter - 75 mm, Maximum Pumpset OD - 72 mm, Outlet Size :- 32mm, TYPE OF FLOW : RADIAL

RATING	MOTOR RATING		STAGE							
	kW	H.P.		DISCHARGE IN LPM						
				0	10	20	25	35	40	50
				HEAD IN METRES						
3VO20RA1	0.75	1	20	60	54	48	42	30	22	10
3VO25RA1	0.75	1	25	75	68	60	52	38	28	12
3VO30RA1.25	0.94	1.25	30	90	81	72	63	45	33	15
3VO36RA1.25	0.94	1.25	36	108	97	86	76	54	40	18

Minimum Bore Diameter - 80mm ,Maximum Pumpset OD - 77 mm, Outlet Size :- 32mm, TYPE OF FLOW : RADIAL

RATING	MOTOR RATING		STAGE						
				DISCHARGE IN LPM					
	kW	H.P.		10	25	35	45	50	60
				HEAD IN METRES					
3VO14RB1	0.75	1	14	42	40	37	34	29	21

RATING	MOTOR RATING		STAGE								
				DISCHARGE IN LPM							
	kW	H.P.		0	24	28	38	48	60	72	84
				HEAD IN METRES							
3VO6RC0.5	0.37	0.5	6	30	27	25	24	22	19	16	10
3VO8RC0.75	0.55	0.75	8	40	36	34	32	30	26	21	13
3VO10RC1	0.75	1	10	50	44	42	40	37	32	26	16
3VO12RC1	0.75	1	12	60	53	50	48	44	38	31	19
3VO13RC1.25	0.94	1.25	13	65	57	55	52	48	42	34	21
3VO15RC1.25	0.94	1.25	15	75	66	63	60	55	48	39	24

CAPACITOR VALUE 75 mm OIL FILLED SINGLE PHASE MOTOR

MOTOR H.P.	CIRCUIT BREAKER RATING (AMP)	RUNNING CAPACITOR VALUE	ON/ OFF SWITCH (AMP)
0.5	6	30 mfd 440 V	6
0.75	6	30 mfd 440 V	6
1	10	30 mfd 440 V	16
1.25	10	36 mfd 440 V	16

Performance Chart for 100 mm BOREWELL SUBMERSIBLE Pumpset at 230 volts, 50 Hz AC Supply

Minimum Bore Diameter - 100 mm , Maximum Pumpset OD :- 96.5 mm, Outlet Size :- 38 mm, TYPE OF FLOW : RADIAL

RATING	MOTOR RATING		STAGE	DISCHARGE IN LPM						
	kW	H.P.		0	30	50	80	90	110	120
				HEAD IN METRES						
4VO7RB1	0.75	1.00	7	46	44	42	35	32	27	22
4VO8RB1.5	1.10	1.50	8	53	50	48	40	37	30	25
4VO10RB1.5	1.10	1.50	10	66	63	60	50	46	38	31
4VO12RB2	1.50	2.00	12	79	76	72	60	55	46	37

Note : Performance figure given above are approximate and may differ on site conditions.

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75 MM & 100 MM OIL FILLED SUBMERSIBLE PUMPSETS

Minimum Bore Diameter - 100mm , Maximum Pumpset OD :- 96.5mm, Outlet Size :- 32mm, TYPE OF FLOW : RADIAL

RATING	MOTOR RATING		STAGE	DISCHARGE IN LPM							
	kW	H.P.		0	20	30	40	50	60	70	90
				HEAD IN METRES							
4VO6RC0.75	0.55	0.75	6	35	34	32	31	29	27	24	18
4VO7RC0.75	0.55	0.75	7	41	39	38	36	34	32	28	18
4VO8RC1	0.75	1.00	8	47	45	43	42	39	36	32	24
4VO10RC1	0.75	1	10	59	56	54	52	49	45	40	30
4VO12RC1.5	1.1	1.5	12	71	67	65	62	59	54	48	36
4VO14RC1.5	1.10	1.50	14	83	78	76	73	69	63	56	42
4VO16RC2	1.50	2.00	16	94	90	86	83	78	72	64	48
4VO18RC2	1.50	2.00	18	106	101	97	94	88	81	72	54
4VO8RG1	0.75	1	8	68	63	60	57	53	47	40	24
4VO10RH1.5	1.1	1.5	10	80	71	67	60	53	47	35	23

Minimum Bore Diameter - 100mm , Maximum Pumpset OD :- 96.5mm, Outlet Size :- 32mm, TYPE OF FLOW : RADIAL

RATING	MOTOR RATING		STAGE	DISCHARGE IN LPM							
	kW	H.P.		0	10	15	20	25	35	40	45
				HEAD IN METRES							
4VO8RE0.5	0.37	0.5	8	45	42	40	38	34	28	20	
4VO14RE0.75	0.55	0.75	14	78	74	70	67	60	49	35	
4VO18RE1	0.75	1	18	101	95	90	86	77	63	45	
4VO21RE1	0.75	1	21	118	111	105	101	90	74	52	
4VO25RE1.5	1.1	1.5	25	140	132	125	120	108	88	62	
4VO6RI0.5	0.37	0.5	6	44	39	36	34	31	25	20	
4VO10RI0.75	0.55	0.75	10	73	64	55	55	50	40	33	20
4VO10RI1	0.75	1	10	73	64	60	57	52	42	33	
4VO14RI1	0.75	1	14	103	90	84	79	72	58	47	
4VO16RI1	0.75	1	16	117	103	96	91	83	67	53	
4VO18RI1.5	1.1	1.5	18	132	116	108	102	91	75	60	
4VO20RI2	1.5	2	20	147	129	120	113	103	83	67	

CAPACITOR VALUE FOR 100 mm OIL FILLED SINGLE PHASE MOTOR

MOOTR H.P.	CIRCUIT BREAKER RATING (AMP)	RUNNING CAPACITOR VALUE	ON/ OFF SWITCH (AMP)
0.5	6	25 mfd 440 V	6
0.75	6	36 mfd 440 V	6
1	10	36 mfd 440 V	16
1.5	10	36 mfd 440 V	16
2	20	36 mfd 440 V	MCB
3	20	36+36 mfd 440 V	MCB

Crompton Greaves Limited

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