AGRO PUMPS

Product Explorer

Crompton

PUMPS : AN OVERVIEW

Crompton Greaves Consumer Electricals Limited, is the leading manufacturer of all types of pumps suitable for handling water, finding applications in Agricultural, Residential and Commercial Sectors.

CGCEL has an ever increasing range of energy efficient pumps that are customer friendly and reliable.

Today, **Crompton Greaves Consumer Electricals Limited** is the only company having a wide product range of more than 2000 varied pump models catering to different areas of application i.e. Residential, Agricultural & Commercial Sectors under one roof.

Our product range covers :

Submersible pump sets: Suitable for Borewell ranging from diameter 75mm to 250 mm
Openwell Submersible pump sets : Suitable for openwell application available in horizontal and vertical construction in 1 Phase and 3 Phase
Panels: Suitable for Openwell and Borewell pumps upto 100 mm diameter
GSM Controller : Suitable for 3 phase pumps
Starters : Available in DOL as well as Star Delta Type
Cables: Submersible cables up to 6 sq mm
Surface mounted pumps : Monosets in self-priming and non-self priming
Solar Pumping System
Jet Pumps : Shallow well, Multi stage, Twin Type and Packer Type
Pressure Boosting System : Available in single pressure booster as well as with multiple pumps
Vertical Multistage pumps : Available for RO plant application in 1 Phase and 3 Phase
Submersible Sewage pumps : Available in 1 Phase and 3 Phase
Swimming Pool Pumps
End Suction Pumps in accordance with DIN 24255
Non clog dewatering self priming pumps in bare shaft, monosets and coupled

With a view to augment our manufacturing capabilities we have set up a large state of the art manufacturing plant, at MIDC Ahmednagar, with complete computerized testing facilities and adherence to latest quality standards to meet the varied needs of customers.

The company has more than 350 models in the 4 star and 5 star category duly approved by the Bureau of Energy Efficiency - a nodal agency under the Ministry of Power to serve varied needs in Agriculture and Industries.

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Contents

100 mm Stainless Steel Borewell Pump

With Copper Rotor

Features

Motor

- Suitable in Wide Voltage
- Winding Wire - High Quality Insulation
- Shaft - Stainless Steel
- Thrust Bearing - High Quality Carbon Vs Steel Combination
- All Fasteners - Stainless Steel
- Motor - Water filled, Easy to Rewind
- Higher Efficiency - Higher Water Discharge at Low Power Consumption
- Copper Rotor

Pump

- All Pump Parts - Stainless Steel
- 40% Higher Efficiency
- Wear & Abrasion Resistence
- Lower Suction Housing - Precision Cast Stainless Steel
- Hexagonal Pump Shaft - Higher Strength Against Radial Load
- In-built Strainer - Prevent Sand & Particles Entry
- Negligible Maintenance Cost
- Excellent Aesthetics

Standard Specification

- Range : 2.2 kW to 5.5 kW (2.0 HP to 7.5 HP)
- Speed : 3000 (Syn.)
- Total Head Range : Upto 405 Meters
- Discharge Range : Upto 180 LPM
- Motor : Water filled 220 Volts for 1 Phase & 415 Volts for 3 Phase, 50 Hz, AC Supply

Application

- Irrigation and Drip Irrigation
- Sprinkler, Gardening and Bungalows
- High Storey Buildings
- Industrial Water Supply Schemes

Performance Chart for 4CSS Series - 100 mm Stainless Steel Borewell Submersible Pump

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					13	25	34	42	51	59	64
		kW	HP		Head in Meters						
4CSSF3-3045*	45	2.2	3.0	32 (1.2")	243	225	202	180	135	90	45
4CSSF3-3050*	50	2.2	3.0	32 (1.2")	270	250	225	200	150	100	50
4CSSF3-4060*	60	3.0	4.0	32 (1.2")	324	300	270	240	180	120	60
4CSSF3-5025*	25	3.7	5.0	32 (1.2")	138	125	113	100	75	50	25
4CSSF3-5030*	30	3.7	5.0	32 (1.2")	165	150	135	120	90	60	30
4CSSF3-5050*	50	3.7	5.0	32 (1.2")	270	250	225	200	150	100	50
4CSSF3-5060*	60	3.7	5.0	32 (1.2")	324	300	270	240	180	120	60
4CSSF3-5075(3PH)	75	3.7	5.0	32 (1.2")	405	375	337	300	225	150	75
4CSSF3-5075(P)	75	3.7	5.0	32 (1.2")	405	375	337	300	225	150	75

Note : 1. *Also available in 3 Phase
2. Performance figure given above are approximate and differ on site conditions

Performance Chart for 4CSS Series - 100 mm Stainless Steel Borewell Submersible Pump

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					22	40	60	70	80	90	100
		kW	HP		Head in Meters						
4CSSF5-3028*	28	2.2	3.0	40 (1.5")	150	133	104	88	67	38	10
4CSSF5-3030*	30	2.2	3.0	40 (1.5")	165	150	135	120	90	60	30
4CSSF5-3036*	36	2.2	3.0	40 (1.5")	198	180	162	144	108	72	36
4CSSF5-4040*	40	3.0	4.0	40 (1.5")	216	200	180	160	120	80	40
4CSSF5-4046*	46	3.0	4.0	40 (1.5")	248	230	207	184	138	92	46
4CSSF5-5020*	20	3.7	5.0	40 (1.5")	110	100	90	80	60	40	20
4CSSF5-5025*	25	3.7	5.0	40 (1.5")	138	125	113	100	75	50	25
4CSSF5-5028*	28	3.7	5.0	40 (1.5")	154	140	126	112	84	56	28
4CSSF5-5030*	30	3.7	5.0	40 (1.5")	165	150	135	120	90	60	30
4CSSF5-5036*	36	3.7	5.0	40 (1.5")	198	180	162	144	108	72	36
4CSSF5-5040*	40	3.7	5.0	40 (1.5")	216	200	180	160	120	80	40
4CSSF5-5050 (3PH)	50	3.7	5.0	40 (1.5")	270	250	225	200	150	100	50
4CSSF5-5050 (P)	50	3.7	5.0	40 (1.5")	270	250	225	200	150	100	50
4CSSF5-6040 (3PH)	40	4.5	6.0	40 (1.5")	216	200	180	160	120	80	40
4CSSF5-6050 (3PH)	50	4.5	6.0	40 (1.5")	270	250	225	200	150	100	50
4CSSF5-6060 (3PH)	60	4.0	6.0	40 (1.5")	324	300	270	240	180	120	60
4CSSF5-6060 (P)	60	4.0	6.0	40 (1.5")	324	300	270	240	180	120	60
4CSSF5-7530 (3PH)	30	5.5	7.5	40 (1.5")	165	150	135	120	90	60	30
4CSSF5-7535 (3PH)	35	5.5	7.5	40 (1.5")	193	175	158	140	105	70	35
4CSSF5-7540 (3PH)	40	5.5	7.5	40 (1.5")	216	200	180	160	120	80	40
4CSSF5-7560 (3PH)	60	5.5	7.5	40 (1.5")	324	300	270	240	180	120	60
4CSSF5-7575 (3PH)	75	5.5	7.5	40 (1.5")	405	375	338	300	225	150	75

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					45	80	115	135	155	170	180
		kW	HP		Head in Meters						
4CSSF8 - 3009*	9	2.2	3.0	50 (2")	45	41	36	32	27	23	18
4CSSF8 - 3010*	10	2.2	3.0	50 (2")	50	45	40	35	30	25	20
4CSSF8 - 3012*	12	2.2	3.0	50 (2")	60	54	48	42	36	30	24
4CSSF8 - 3013*	13	2.2	3.0	50 (2")	65	59	52	46	39	33	26
4CSSF8 - 3015*	15	2.2	3.0	50 (2")	75	68	60	53	45	38	30
4CSSF8 - 3018*	18	2.2	3.0	50 (2")	90	81	72	63	54	45	36
4CSSF8 - 4020*	20	3.0	4.0	50 (2")	100	90	80	70	60	50	40
4CSSF8 - 4022*	22	3.0	4.0	50 (2")	110	99	88	77	66	55	44
4CSSF8 - 5030 (3PH)	30	3.7	5.0	50 (2")	150	135	120	105	90	75	60
4CSSF8 - 6035 (3PH)	35	4.5	6.0	50 (2")	175	158	140	123	105	88	70
4CSSF8 - 7540 (3PH)	40	5.5	7.5	50 (2")	200	180	160	140	120	100	80
4CSSF8 - 7544 (3PH)	44	5.5	7.5	50 (2")	220	198	176	154	132	110	88

Note : 1. *Also available in 3 Phase
2. Performance figure given above are approximate and may differ on site conditions
3. Ratings with (P) suitable for voltage band 300-420 Volts

100 mm Borewell Submersible Pump

Features

Motor

- Dynamically Balanced Rotor - Vibration Free
- Easy Rewindable
- PVC Insulated Copper Winding Wire
- Rotor Shaft - Stainless Steel
- Thrust Bearing - Water Lubricated
- Stator Body - Stainless Steel
- Totally Enclosed, Water Filled, Squirrel Cage Induction Motor

Pump

- Jacketed Type Construction - Ease in Assembly & Dismantling
- Suction & Discharge Outlets are made of Cast Iron
- NRV Fitted in Discharge Outlet to Prevent Backflow

Standard Specifications

- Range : 3.0 HP to 5.0 HP (2.2kW to 3.7kW) in 1 Phase,
  3.0 HP to 6.0 HP (2.2kW to 4.5kW) in 3 Phase
- Voltage Band : 180- 240V for 1 Phase and 350-440V for 3 Phase
- Max outer dia : 96.5 mm
- Liquid : Clear Water
- Speed : 3000 rpm (Syn.)

Applications

- Irrigation & Drip Irrigation
- Ornamental Fountains
- Small Farms
- Sprinkler, Gardening & Bungalows
- High Storey Buildings & Complexes
- Industrial Water Supply Schemes

Performance Chart for 100W Series - 100 mm Waterfilled Borewell Submersible Pump

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM					
		kW	HP			34	42	54	57	72	84
						Head in Meters					
100W30RH3TP	30	2.2	3.0	32 (1.2")	Yes	200	197	184	170	132	80
100W40RH5TP	40	3.7	5.0	32 (1.2")		263	257	245	227	176	107

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM					
		kW	HP			70	85	110	130	150	160
						Head in Meters					
100W12RA3/100W12RA3-50	12	2.2	3.0	38 (1.5")/50 (2")		72	64	62	54	40	
100W15RA3/100W15RA3-50	15	2.2	3.0	38 (1.5")/50 (2")		90	80	78	68	50	
100W25RA5	25	3.7	5.0	38 (1.5")		150	133	129	113	83	
100W12RA3TP/100W12RA3TP-50	12	2.2	3.0	38 (1.5")/50 (2")	Yes	72	64	62	54	40	
100W15RA3TP/ 100W15RA3TP-50	15	2.2	3.0	38 (1.5")/50 (2")	Yes	90	80	78	68	50	
100W25RA5TP/100W25RA5TP-50	25	3.7	5.0	38 (1.5")/50 (2")		150	133	129	113	83	
100W31RA6TP	31	4.5	6.0	38(1.5")		186	165	160	140	103	

Note : 1. Performance figure given above are approximate and may differ on site conditions
2. The performance declaration of ISI pumps may vary with respect to this catalogue

Performance Chart for 100W Series - 100 mm Waterfilled Borewell Submersible Pump

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM				
					35	50	80	90	100
		kW	HP		Head in Meters				
100W21RJ3/100W21RJ3TP	21	2.2	3.0	32	138	113	75	60	42

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM				
					110	165	195	215	245
		kW	HP		Head in Meters				
100W10RP3TP	10	2.2	3.0	50	55	45	34	29	17

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM				
					120	200	250	350	370
		kW	HP		Head in Meters				
100W7RQ3/100W7RQ3TP/100W7RQ3(I)	7	2.2	3.0	50	35	32	27	24	19
100W6RS3/100W6RS3TP	6	2.2	3.0	65	33	27	21	18	12
100W7RS3/100W7RS3TP	7	2.2	3.0	65	43		32	28	25

Performance Chart for 100W Series - 100 mm Waterfilled Borewell Submersible Pump - Mixed Flow

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM				
					240	340	380	425	470
		kW	HP		Head in Meters				
100W6MS3/100W6MS3(I)	6	2.2	3.0	65	26	20	17	14	11
100W6MS3TP	6	2.2	3.0	65	26	20	17	14	11
100W8MS4TP	8	3.0	4.0	65	35	27	23	19	15
100W10MS5TP	10	3.7	5.0	65	43	33	28	23	18
100W12MS6TP	12	4.5	6.0	65	52	40	34	28	22
100W14MS7.5TP	14	5.5	7.5	65	61	47	40	33	26

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM				
					195	245	280	320	345
		kW	HP		Head in Meters				
100W6MT3/100W6MT3(I)	6	2.2	3.0	50	23	19	15	11	7
100W6MT3TP	6	2.2	3.0	50	23	19	15	11	7
100W7MT3/100W7MT3(I)	7	2.2	3.0	50	27	23	18	12	8
100W7MT3TP	7	2.2	3.0	50	27	23	18	12	8
100W9MT3/100W9MT3(I)	9	2.2	3.0	50	35	29	23	16	10
100W9MT3TP	9	2.2	3.0	50	39	32	26	18	11
100W10MT4TP	10	3.0	4.0	50	47	39	31	21	13
100W12MT5TP	12	3.7	5.0	50	54	45	36	25	16
100W16MT6TP	16	3.7	5.0	50	62	51	41	29	18
100W18MT6TP	18	4.5	6.0	50	69	58	46	32	21

Performance Chart for 4W Series - 100 mm Waterfilled Borewell Submersible Pump

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM							
					10	20	30	50	60	90	100	130
		kW	HP		Head in Meters							
4W17B3J-VX	17	2.2	3.0	40 (1.5")		129	122	108	79	67	52	
4W40B5TPJ-VX	40	3.7	5.0	40 (1.5")	261	243	238	209	133	101	65	
4W48B5TPJ- VX	48	3.7	5.0	40 (1.5")	307	300	281	243	161	127	83	
4W17C3J-VX	17	2.2	3.0	40 (1.5")			110	106	93	86	79	51
4W17D3J-VX/ 4W17D3TPJ -VX	17	2.2	3.0	40 (1.5")				98		79		47
4W30D5TPJ-VX	30	3.7	5.0	40 (1.5")				162		132		78

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM							
					50	110	140	170	200	240	270	330
		kW	HP		Head in Meters							
4W15E3J-VX / 4W15E3TPJ-VX	15	2.2	3.0	50 (2")	74	54	42	32	20			
4W25E5TPJ-VX	25	2.2	3.0	50 (2")	123	91	72	53	33			
4W7F3J / 4W7F3TPJ-VX	7	2.2	3.0	50 (2")			32	30	27	23	18	7
4W12F5TPJ-VX	12	3.7	5.0	50 (2")			50	47	42	36	28	11

Performance Chart for 4VO Series- 100 mm Oil Filled Borewell Submersible Pump

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM							
					30	50	80	120	250	350	400	500
		kW	HP		Head in Meters							
4VO30RH3	30	2.2	3.0	32 (1.5")	200	160	70					
4VO6RS3/4VO6RS3TP	6	2.2	3.0	65 (2.5")				33	27	21	18	12
4VO7RS3/ 4VO7RS3TP	7	2.2	3.0	65 (2.5")				39	32	25	21	14

Note : 1. Performance figure given above are approximate and may differ on site conditions
2. The performance declaration of ISI pumps may vary with respect to this catalogue

150 mm Borewell Submersible Pump (50 Feet per Stage)

Features

Motor

- Totally Enclosed, Water Filled, Squirrel Cage, 2 pole (3000 RPM Syn. Speed), suitable for Wide Voltage, 3 Phase, 50 Hz, AC supply
- Ease in Rewinding & Longer Life
- Water Resistant PVC Insulated Copper Wire
- Specially Designed Thrust Bearing - Lower Power Consumption
- Specially Designed Seals & Sand Guard to avoid Sand Entry
- Motor Body - Stainless Steel
- Bush - Gun Metal
- Energy Efficient - Saves Power & Electricity Bills
- Copper Rotor

Pumps

- Multistage Centrifugal Pump with Radial Type Impeller Design
- Dynamically Balanced Impellers with Pump Shaft – Better Efficiency & Performance
- Impeller - Stainless Steel
- Diffuser - Stainless Steel
- Non return valve fitted to discharge outlet to prevent backflow
- Stainless steel Pump shaft – Rust Prevention & Longer Life
- 50 Feet Head per Stage

Standard Specifications

- Range : 2.2 kW to 22 kW (3.0 HP to 30.0 HP)
- Pipe Size : Delivery Pipe Size 65 mm
- Liquid : Clear Water
- Borewell Size : Suitable for 150 mm Borewells
- Voltage Band : 300 to 415 Volts

Applications

- Agricultural Farms
- Sprinkler Irrigation, Drip Irrigation
- Water supply for Industrial / Commercial Establishments & Villages
- Multistoried Buildings
- Construction Sites

Performance Chart for 650CS Series - 150 mm Waterfilled Borewell Submersible Pump - Radial Flow

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					80	120	140	160	180	220	225
		kW	HP		Head in Meters						
650CS60-0305	5	2.2	3.0	65 (2.5")	70	65	62	58	52	40	30
650CS60-0407	7	3.0	4.0	65 (2.5")	98	95	90	81	72	55	40
650CS60-0508	8	3.7	5.0	65 (2.5")	112	105	100	92	82	65	45
650CS60-0610	10	4.5	6.0	65 (2.5")	140	130	125	115	100	80	60
650CS60-7512	12	5.5	7.5	65 (2.5")	166	155	152	140	125	95	70
650CS60-1016	16	7.5	10.0	65 (2.5")	220	205	190	186	165	125	95
650CS60-12520	20	9.3	12.5	65 (2.5")	275	260	240	230	205	160	120
650CS60-1524	24	11.0	15.0	65 (2.5")	332	308	295	280	250	190	140
650CS60-17527	27	13.0	17.5	65 (2.5")	395	370	345	320	275	210	150
650CS60-2030	30	15.0	20.0	65 (2.5")	430	410	385	360	310	240	180

Note : 1. Performance figure given above are approximate and may differ on site conditions

Performance Chart for 650CS Series - 150 mm Waterfilled Borewell Submersible Pump - Radial Flow

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					150	180	200	230	270	300	330
		kW	HP		Head in Meters						
650CS80-0304	4	2.2	3.0	65 (2.5")	55	56	52	48	40	32	20
650CS80-0405	5	3.0	4.0	65 (2.5")	70	70	65	60	45	38	28
650CS80-0506	6	3.7	5.0	65 (2.5")	82	84	78	72	58	45	32
650CS80-0608	8	4.5	6.0	65 (2.5")	115	110	102	96	78	60	42
650CS80-7510	10	5.5	7.5	65 (2.5")	140	136	128	120	95	75	55
650CS80-1012	12	7.5	10.0	65 (2.5")	170	165	155	144	115	90	65
650CS80-12515	15	9.3	12.5	65 (2.5")	205	200	190	180	145	110	80
650CS80-1518	18	11.0	15.0	65 (2.5")	265	250	230	216	175	135	105
650CS80-17521	21	13.0	17.5	65 (2.5")	300	290	270	252	200	160	120
650CS80-2024	24	15.0	20.0	65 (2.5")	350	332	312	288	235	185	140

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					180	210	260	280	320	350	390
		kW	HP		Head in Meters						
650CS100-0303	3	2.2	3.0	65 (2.5")	40	38	34	30	24	18	9
650CS100-0404	4	3.0	4.0	65 (2.5")	55	50	45	40	32	24	12
650CS100-0505	5	3.7	5.0	65 (2.5")	70	65	55	50	40	30	15
650CS100-0606	6	4.5	6.0	65 (2.5")	82	76	66	60	48	36	18
650CS100-7508	8	5.5	7.5	65 (2.5")	110	102	88	80	62	45	22
650CS100-1010	10	7.5	10.0	65 (2.5")	135	126	112	100	80	60	30
650CS100-12512	12	9.3	12.5	65 (2.5")	165	150	130	120	96	70	35
650CS100-1515	15	11.0	15.0	65 (2.5")	205	190	162	150	115	86	42
650CS100-17518	18	13.0	17.5	65 (2.5")	250	230	195	180	140	110	52
650CS100-2020	20	15.0	20.0	65 (2.5")	275	255	225	200	160	120	60
650CS100-2525	25	18.5	25.0	65 (2.5")	338	315	280	250	200	150	75
650CS100-3028	28	22.0	30.0	65 (2.5")	378	353	315	280	225	168	84

Note : 1. Performance figure given above are approximate and may differ on site conditions

Performance Chart for 650CS Series - 150 mm Waterfilled Borewell Submersible Pumps - Radial Flow

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					250	340	380	420	480	520	560
		kW	HP		Head in Meters						
650CS125-0403	3	3.0	4.0	65 (2.5")	40	36	33	30	24	16	8
650CS125-0504	4	3.7	5.0	65 (2.5")	54	48	44	40	32	22	10
650CS125-0605	5	4.5	6.0	65 (2.5")	68	60	55	50	36	28	14
650CS125-7506	6	5.5	7.5	65 (2.5")	80	70	66	60	45	34	16
650CS125-1008	8	7.5	10.0	65 (2.5")	108	94	88	80	60	45	24
650CS125-12510	10	9.3	12.5	65 (2.5")	135	120	110	100	75	55	28
650CS125-1512	12	11.0	15.0	65 (2.5")	160	140	130	120	90	68	34
650CS125-17514	14	13.0	17.5	65 (2.5")	190	165	155	140	110	80	40
650CS125-2016	16	15.0	20.0	65 (2.5")	220	190	175	160	120	90	45
650CS125-2520	20	18.5	25.0	65 (2.5")	275	238	219	200	150	113	56
650CS125-3024	24	22.0	30.0	65 (2.5")	330	285	263	240	180	135	68

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					270	380	420	450	520	550	590
		kW	HP		Head in Meters						
650CS150-0402	2	3.0	4.0	65 (2.5")	27	24	22	20	15	12	7
650CS150-0503	3	3.7	5.0	65 (2.5")	40	36	33	30	22	16	10
650CS150-0604	4	4.5	6.0	65 (2.5")	54	48	44	40	30	22	15
650CS150-7505	5	5.5	7.5	65 (2.5")	66	60	55	50	38	30	18
650CS150-1007	7	7.5	10.0	65 (2.5")	92	82	77	70	52	40	26
650CS150-12508	8	9.3	12.5	65 (2.5")	105	94	88	80	60	45	30
650CS150-1510	10	11.0	15.0	65 (2.5")	135	120	110	100	80	60	40
650CS150-17512	12	13.0	17.5	65 (2.5")	158	142	130	120	92	70	45
650CS150-2013	13	15.0	20.0	65 (2.5")	172	155	142	130	100	75	50

Note : 1. Performance figure given above are approximate and may differ on site conditions

125 mm/150 mm/175 mm/ 200 mm/250 mm Borewell Submersible Pumps

Standard Specifications

- Range : 2.2 kW to 55 kW (3.0 HP to 75.0 HP)
- Pipe Size : 50 mm to 150 mm
- Liquid : Clear water
- Borewell Size : Suitable for 125 MM to 250 MM or bigger

Features

Motor

- Totally Enclosed, Water Filled, Squirrel Cage, 2 Pole (3000 RPM Syn. Speed), suitable for Wide Voltage, 3 Phase, 50 Hz, AC supply
- Available in Single Piece as well as Three Piece Construction
- Water Resistant Polywrap & PVC Insulated Copper Wire
- Specially Designed Thrust Bearing - Lower Power Consumption
- Epoxy Coating to All Ferrous Parts – Rust Prevention & Longer Life
- Specially Designed Water Filled & Water Lubricated Motor
- Specially Designed Seals & Sand Guard -To Avoid Sand Entry
- Copper rotor
- Energy Efficient - Saves Power & Electricity Bills

Pumps

- Available with Radial / Mix Flow Type Impeller Design
- Epoxy Coating to All Ferrous Parts – Rust Prevention & Longer Life
- Dynamically Balanced Impellers – Better Efficiency & Performance
- Non Return Valve - To Prevent Backflow
- Stainless Steel Pump Shaft – Rust Prevention & Longer Life
- Stainless Steel Impellers – Better Efficiency & Longer Life

Applications

- Agricultural Farms
- Multistoried Buildings
- Ornamental Fountains
- Water Supply for Industrial / Commercial Establishments
- Sprinkler Irrigation, Drip Irrigation
- Construction Sites

Performance Chart for 5W/125W Series - 125 mm Borewell Submersible Pump - Mixed Flow

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM					
					260	390	480	530	580	660
		kW	HP		Head in Meters					
5W4D5	4	3.7	5.0	80 (3")	33	30	27	23	20	16
125W4D5	4	3.7	5.0	80 (3")	33	30	27	23	20	16
5W5D6	5	4.5	6.0	80 (3")	41	38	33	29	25	20
125W4D6	5	4.5	6.0	80 (3")	41	38	33	29	25	20

Performance Chart for 6W (1PH) Series - 150 mm Borewell Submersible Pump

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM					
					90	120	150	180	210	270
		kW	HP		Head in Meters					
6W8X5(1PH)	8	3.7	5.0	50 (2")	80	77	72	65	58	39
6W12X7.5(1PH)	12	5.5	7.5	50 (2")	121	116	108	97	87	59

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM					
					65	90	120	140	190	215
		kW	HP		Head in Meters					
6W12V5(1PH)	12	3.7	5.0	65 (2.5")	121	113	96	88	53	35

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM					
					315	400	444	520	570	660
		kW	HP		Head in Meters					
6W5O5(1PH)	5	3.7	5.0	65 (2.5")	38	35	33	28	24	15

Note : 1. Voltage range 5W series - 300 to 440 V, 125W series - 250 to 350 V
2. Performance figure given above are approximate and may differ on site conditions

Performance Chart for 150W/6W Series - 150 mm Borewell Submersible Pump - Radial Flow

SERIES : 6W-U / 150W-U / 6WT-U / 150WT-U								Discharge in LPM						
Rating ISI	Rating ISI	Rating	Rating	No of Stages	Outlet size in MM	Motor								
6W-U	150W-U	6WT-U	150WT-U			kW	HP	30	60	90	120	150	180	210
6"RADIAL FLOW SUBMERSIBLE PUMP								Head in Meters						
6W8U3	150W8U3	6WT8U3	150WT8U3	8	50 (2")	2.2	3.0	78	72	64	55	44	30	15
6W9U3	150W9U3	6WT9U3	150WT9U3	9	50 (2")	2.2	3.0	87	81	72	62	50	34	17
6W12U4	150W12U4	6WT12U4	150WT12U4	12	50 (2")	3.0	4.0	116	108	96	83	66	46	23
6W14U5	150W14U5	6WT14U5	150WT14U5	14	50 (2")	3.7	5.0	136	126	112	97	77	53	27
6W16U6	150W16U6	6WT16U6	150WT16U6	16	50 (2")	4.5	6.0	155	144	128	110	88	61	30
6W18U6	150W18U6	6WT18U6	150WT18U6	18	50 (2")	4.5	6.0	175	162	144	124	99	68	34
6W22U7.5	150W22U7.5	6WT22U7.5	150WT22U7.5	22	50 (2")	5.5	7.5	213	198	176	152	121	84	42
6W22U7.5 S/D	150W22U7.5 S/D	6WT22U7.5 S/D	150WT22U7.5 S/D	22	50 (2")	5.5	7.5	213	198	176	152	121	84	42
6W26U10	150W26U10	6WT26U10	150WT26U10	26	50 (2")	7.5	10.0	252	234	208	179	143	99	49
6W28U10	150W28U10	6WT28U10	150WT28U10	28	50 (2")	7.5	10.0	272	252	224	193	154	106	53
6W30U12.5	150W30U12.5	--	--	30	50 (2")	9.3	12.5	291	270	240	207	165	114	57
6W32U12.5	150W32U12.5	--	--	32	50 (2")	9.3	12.5	310	288	256	221	176	122	61
6W34U12.5	150W34U12.5	--	--	34	50 (2")	9.3	12.5	330	306	272	235	187	129	65
6W36U12.5	150W36U12.5	--	--	36	50 (2")	9.3	12.5	349	324	288	248	198	137	68

SERIES : 6W-V / 150W-V / 6WT-V / 150WT-V								Discharge in LPM						
Rating ISI	Rating ISI	Rating	Rating	No of Stages	Outlet size in MM	Motor								
6W-V	150W-V	6WT-V	150WT-V			kW	HP	65	90	117	140	165	190	215
6"RADIAL FLOW SUBMERSIBLE PUMP								Head in Meters						
6W6V3	150W6V3	6WT6V3	150WT6V3	6	50 (2")	2.2	3.0	61	57	48	44	36	27	17
6W7V3	150W7V3	6WT7V3	150WT7V3	7	50 (2")	2.2	3.0	71	66	56	51	42	31	20
6W8V4	150W8V4	6WT8V4	150WT8V4	8	50 (2")	3.0	4.0	81	76	64	59	48	36	23
6W10V4	150W10V4	6WT10V4	150WT10V4	10	50 (2")	3.0	4.0	101	95	80	74	60	45	29
6W12V5	150W12V5	6WT12V5	150WT12V5	12	50 (2")	3.7	5.0	121	113	96	88	72	53	35
6W14V6	150W14V6	6WT14V6	150WT14V6	14	50 (2")	4.5	6.0	141	132	112	103	84	62	41
6W16V7.5	150W16V7.5	6WT16V7.5	150WT16V7.5	16	50 (2")	5.5	7.5	162	151	128	118	96	71	46
6W18V7.5	150W18V7.5	6WT18V7.5	150WT18V7.5	18	50 (2")	5.5	7.5	182	170	144	132	108	80	52
6W20V7.5	150W20V7.5	6WT20V7.5	150WT20V7.5	20	50 (2")	5.5	7.5	202	189	160	147	120	89	58
6W16V7.5 S/D	150W16V7.5 S/D	6WT16V7.5 S/D	150WT16V7.5 S/D	16	50 (2")	5.5	7.5	162	151	128	118	96	71	46
6W18V7.5 S/D	150W18V7.5 S/D	6WT18V7.5 S/D	150WT18V7.5 S/D	18	50 (2")	5.5	7.5	182	170	144	132	108	80	52
6W20V7.5 S/D	150W20V7.5 S/D	6WT20V7.5 S/D	150WT20V7.5 S/D	20	50 (2")	5.5	7.5	202	189	160	147	120	89	58
6W22V10	150W22V10	6WT22V10	150WT22V10	22	50 (2")	7.5	10.0	222	208	176	162	132	98	64
6W24V10	150W24V10	6WT24V10	150WT24V10	24	50 (2")	7.5	10.0	242	227	192	176	144	107	70
6W26V12.5	150W26V12.5	--	--	26	50 (2")	9.3	12.5	263	246	208	191	156	116	75
6W28V12.5	150W28V12.5	--	--	28	50 (2")	9.3	12.5	283	265	224	206	168	125	81
6W30V15	150W30V15	--	--	30	50 (2")	11.0	15.0	303	284	240	221	180	134	87
6W32V15	150W32V15	--	--	32	50 (2")	11.0	15.0	323	302	256	235	192	142	93
6W34V15	150W34V15	--	--	34	50 (2")	11.0	15.0	343	321	272	250	204	151	99
6W36V17.5	150W36V17.5	--	--	36	50 (2")	13.0	17.5	364	340	288	265	216	160	104

Note: 1. 6W - Nema Construction up to 10 HP, 6WT- 3 Piece Construction (Voltage range 300 - 440 volts), with copper rotor
2. 150W - Nema Construction up to 10 HP, 150WT- 3 Piece Construction (Voltage range 200 - 400 volts), with copper rotor
3. Performance figures given above are approximate and may differ on site conditions
4. In 6W & 150W Series, above 10 HP it is 3 piece construction

Crompton

Performance Chart for 150W / 6W Series - 150 mm Borewell Submersible Pump - Radial Flow

SERIES : 6W-W / 150W-W / 6WT-W / 150WT-W								Discharge in LPM						
Rating ISI	Rating ISI	Rating	Rating	No of Stages	Outlet size in MM	Motor								
6W-W	150W-W	6WT-W	150WT-W			kW	HP	80	130	155	165	190	235	300
6"RADIAL FLOW SUBMERSIBLE PUMP								Head in Meters						
6W5W3	150W5W3	6WT5W3	150WT5W3	5	50 (2")	2.2	3.0	50	45	41	37	35	27	13
6W7W4	150W7W4	6WT7W4	150WT7W4	7	50 (2")	3.0	4.0	70	63	57	51	49	38	18
6W10W5	150W10W5	6WT10W5	150WT10W5	10	50 (2")	3.7	5.0	98	88	83	75	72	56	26
6W12W6	150W12W6	6WT12W6	150WT12W6	12	50 (2")	4.5	6.0	119	107	98	89	85	66	32
6W14W7.5	150W14W7.5	6WT14W7.5	150WT14W7.5	14	50 (2")	5.5	7.5	139	125	114	104	99	77	37
6W14W7.5 S/D	150W14W7.5 S/D	6WT14W7.5 S/D	150WT14W7.5 S/D	14	50 (2")	5.5	7.5	139	125	114	104	99	77	37
6W18W10	150W18W10	6WT18W10	150WT18W10	18	50 (2")	7.5	10.0	179	161	147	133	127	99	49
6W20W10	150W20W10	6WT20W10	150WT20W10	20	50 (2")	7.5	10.0	198	178	163	148	142	111	54
6W22W12.5	150W22W12.5	--	--	22	50 (2")	9.3	12.5	218	196	180	163	156	122	59
6W24W12.5	150W24W12.5	--	--	24	50 (2")	9.3	12.5	238	214	196	178	170	133	64
6W26W15	150W26W15	--	--	26	50 (2")	11.0	15.0	258	232	212	192	184	144	65
6W28W15	150W28W15	--	--	28	50 (2")	11.0	15.0	280	255	231	210	200	157	66
6W30W17.5	150W30W17.5	--	--	30	50 (2")	13.0	17.5	297	267	245	222	213	166	81
6W32W17.5	150W32W17.5	--	--	32	50 (2")	13.0	17.5	317	285	261	237	227	177	86
6W34W20	150W34W20	--	--	34	50 (2")	15.0	20.0	337	303	277	252	241	188	91
6W36W20	150W36W20	--	--	36	50 (2")	15.0	20.0	357	321	294	266	255	199	97

SERIES : 6W-X/ 150W-X / 6WT-X / 150WT-X								Discharge in LPM						
Rating	Rating	Rating	Rating	No of Stages	Outlet size in MM	Motor								
6W-X	150W-X	6WT-X	150WT-X			kW	HP	90	120	150	180	210	240	270
6"RADIAL FLOW SUBMERSIBLE PUMP								Head in Meters						
6W4X3	150W4X3	6WT4X3	150WT4X3	4	50 (2")	2.2	3.0	40	39	36	32	29	25	20
6W6X4	150W6X4	6WT6X4	150WT6X4	6	50 (2")	3.0	4.0	60	58	54	49	44	37	29
6W7X5	150W7X5	6WT7X5	150WT7X5	7	50 (2")	3.7	5.0	70	68	63	57	51	43	34
6W8X5	150W8X5	6WT8X5	150WT8X5	8	50 (2")	3.7	5.0	80	77	72	65	58	49	39
6W10X6	150W10X6	6WT10X6	150WT10X6	10	50 (2")	4.5	6.0	101	97	90	81	73	62	49
6W12X7.5	150W12X7.5	6WT12X7.5	150WT12X7.5	12	50 (2")	5.5	7.5	121	116	108	97	87	74	59
6W12X7.5 S/D	150W12X7.5 S/D	6WT12X7.5 S/D	150WT12X7.5 S/D	12	50 (2")	5.5	7.5	121	116	108	97	87	74	59
6W14X10	150W14X10	6WT14X10	150WT14X10	14	50 (2")	7.5	10.0	141	135	126	113	102	86	69
6W16X10	150W16X10	6WT16X10	150WT16X10	16	50 (2")	7.5	10.0	161	155	144	130	116	99	79
6W18X12.5	150W18X12.5	--	--	18	50 (2")	9.3	12.5	181	174	162	146	131	111	89
6W20X12.5	150W20X12.5	--	--	20	50 (2")	9.3	12.5	201	193	180	162	145	123	98
6W22X15	150W22X15	--	--	22	50 (2")	11.0	15.0	221	213	198	178	160	136	108
6W24X15	150W24X15	--	--	24	50 (2")	11.0	15.0	241	232	216	194	174	148	118
6W26X17.5	150W26X17.5	--	--	26	50 (2")	13.0	17.5	262	251	234	211	189	160	128
6W28X17.5	150W28X17.5	--	--	28	50 (2")	13.0	17.5	282	270	252	227	203	173	138
6W30X20	150W30X20	--	--	30	50 (2")	15.0	20.0	302	290	270	243	218	185	148
6W32X20	150W32X20	--	--	32	50 (2")	15.0	20.0	322	309	288	259	232	197	157
6W34X22.5	150W34X22.5	--	--	34	50 (2")	16.8	22.5	342	328	306	275	247	210	167
6W36X22.5	150W36X22.5	--	--	36	50 (2")	16.8	22.5	362	348	324	292	261	222	177

Performance Chart for 150W / 6W Series- 150 mm Borewell Submersible Pump - Radial Flow

SERIES : 6W-R / 150W-R / 6WT-R / 150WT-R				Discharge in LPM										
Rating ISI	Rating	Rating	Rating	No of Stages	Motor		Outlet Size in MM	120	180	240	310	350	400	430
6W-R	150W-R	6WT-R	150WT-R											
6" RADIAL FLOW SUBMERSIBLE PUMP					kW	HP	Head in Meters							
6W3R3	150W3R3	6WT3R3	150WT3R3	3	2.0	3.0	50(2")	36	35	32	28	23	20	16
6W4R4	150W4R4	6WT4R4	150WT4R4	4	3.0	4.0	50(2")	48	47	42	37	31	26	21
6W5R5	150W5R5	6WT5R5	150WT5R5	5	3.7	5.0	50(2")	59	58	53	46	39	33	26
6W6R6	150W6R6	6WT6R6	150WT6R6	6	4.5	6.0	50(2")	71	70	63	55	47	39	32
6W7R7.5	150W7R7.5	6WT7R7.5	150WT7R7.5	7	5.5	7.5	50(2")	83	81	74	64	55	46	37
6W7R7.5 S/D	150W7R7.5	6WT7R7.5	150WT7R7.5	7	5.5	7.5	50(2")	83	81	74	64	55	46	37
6W8R7.5	150W8R7.5 S/D	6WT8R7.5	150WT8R7.5 S/D	8	5.5	7.5	50(2")	95	93	84	74	63	52	42
6W8R7.5 S/D	150W8R7.5 S/D	6WT8R7.5 S/D	150WT8R7.5 S/D	8	5.5	7.5	50(2")	95	93	84	74	63	52	42
6W9R10	150W9R10	6WT9R10	150WT9R10	9	7.5	10.0	50(2")	107	104	95	83	70	59	47
6W10R10	150W10R10	6WT10R10	150WT10R10	10	7.5	10.0	50(2")	118	116	105	92	78	66	53

SERIES : 6W-J / 150W-J / 6WT-J / 150WT-J				Discharge in LPM										
Rating ISI	Rating	Rating	Rating	No of Stages	Motor		Outlet Size in MM	135	190	240	280	310	350	380
6W-J	150W-J	6WT-J	150WT-J											
6" RADIAL FLOW SUBMERSIBLE PUMP					kW	HP	Head in Meters							
6W3J3	150W3J3	6WT3J3	150WT3J3	3	2.2	3.0	50(2")	32	30	27	24	20	17	14
6W4J3	150W4J3	6WT4J3	150WT4J3	4	2.2	3.0	50(2")	43	40	36	32	27	23	18
6W5J4	150W5J4	6WT5J4	150WT5J4	5	3.0	4.0	50(2")	54	50	45	39	33	28	23
6W6J5	150W6J5	6WT6J5	150WT6J5	6	3.7	5.0	50(2")	65	60	54	47	40	34	27
6W7J6	150W7J6	6WT7J6	150WT7J6	7	4.5	6.0	50(2")	76	70	63	55	47	39	32
6W8J6	150W8J6	6WT8J6	150WT8J6	8	4.5	6.0	50(2")	86	80	68	63	54	45	36
6W9J7.5	150W9J7.5	6WT9J7.5	150WT9J7.5	9	5.5	7.5	50(2")	97	90	81	71	60	51	41
6W10J7.5	150W10J7.5	6WT10J7.5	150WT10J7.5	10	5.5	7.5	50(2")	108	99	90	79	67	56	45
6W9J7.5 S/D	150W9J7.5 S/D	6WT9J7.5 S/D	150WT9J7.5 S/D	9	5.5	7.5	50(2")	97	90	81	71	60	51	41
6W10J7.5 S/D	150W10J7.5 S/D	6WT10J7.5 S/D	150WT10J7.5 S/D	10	5.5	7.5	50(2")	108	99	90	79	67	56	45
6W11J10	150W11J10	6WT11J10	150WT11J10	11	7.5	10.0	50(2")	119	109	99	87	74	62	50
6W12J10	150W12J10	6WT12J10	150WT12J10	12	7.5	10.0	50(2")	130	119	108	95	81	68	54
6W13J10	150W13J10	6WT13J10	150WT13J10	13	7.5	10.0	50(2")	140	129	117	102	87	73	59

Note:
1. 6W - Nema Construction up to 10 HP, 6WT- 3 Piece Construction (Voltage range 300 - 440 volts), with copper rotor
2. 150W - Nema Construction up to 10 HP, 150WT- 3 Piece Construction (Voltage range 200 - 400 volts), with copper rotor
3. Performance figures given above are approximate and may differ on site conditions
4. In 6W & 150W Series, above 10 HP it is 3 piece construction

Performance Chart for 150W / 6W Series- 150 mm Borewell Submersible Pump - Mixed Flow

SERIES : 6W-D / 150W-D / 6WT-D / 150WT-D				Discharge in LPM										
Rating ISI	Rating	Rating	Rating	No of Stages	Motor		Outlet Size in MM	350	450	504	600	660	720	760
6W-D	150W-D	6WT-D	150WT-D											
6" RADIAL FLOW SUBMERSIBLE PUMP					kW	HP	Head in Meters							
6W2D3	150W2D3	6WT2D3	150WT2D3	2	2.2	3.0	65 (2.5")	19	17	16	13	11	9	-
6W3D4	150W3D4	6WT3D4	150WT3D4	3	3.0	4.0	65 (2.5")	27	24	23	19	17	14	11
6W4D5	150W4D5/150W4D5-LX	6WT4D5	150WT4D5	4	3.7	5.0	65 (2.5")	34	31	29	24	21	17	14
6W5D6	150W5D6	6WT5D6	150WT5D6	5	4.5	6.0	65 (2.5")	45	41	38	32	28	23	19
6W6D7.5	150W6D7.5	6WT6D7.5	150WT6D7.5	6	5.5	7.5	65 (2.5")	54	51	47	40	35	29	24
6W6D7.5 S/D	150W6D7.5 S/D	6WT6D7.5 S/D	150WT6D7.5 S/D	6	5.5	7.5	65 (2.5")	54	51	47	40	35	29	24
6W7D10	150W7D10	6WT7D10	150WT7D10	7	7.5	10.0	65 (2.5")	62	57	53	46	39	33	26
6W8D10	150W8D10	6WT8D10	150WT8D10	8	7.5	10.0	65 (2.5")	72	66	59	53	45	38	34
6W9D12.5	150W9D12.5	--	--	9	9.3	12.5	65 (2.5")	83	76	70	60	52	43	38
6W10D12.5	150W10D12.5	--	--	10	9.3	12.5	65 (2.5")	92	85	78	67	58	49	44
6W12D15	150W12D15	--	--	12	11.0	15.0	65 (2.5")	109	101	93	81	69	58	54
6W14D17.5	150W14D17.5	--	--	14	13.0	17.5	65 (2.5")	125	119	109	95	81	68	57
6W15D20	150W15D20	--	--	15	15.0	20.0	65 (2.5")	132	128	117	102	87	73	58
6W16D20	150W16D20	--	--	16	15.0	20.0	65 (2.5")	140	132	121	105	90	75	60
6W18D22.5	150W18D22.5	--	--	18	16.8	22.5	65 (2.5")	158	145	133	116	99	82	68
6W20D25	150W20D25	--	--	20	18.7	25.0	65 (2.5")	181	171	156	135	116	97	82

SERIES : 6W-E / 150W- E / 6WT- E/ 150WT-E				Discharge in LPM										
Rating ISI	Rating	Rating	Rating	No of Stages	Motor		Outlet Size in MM	420	495	690	750	810	870	930
6W-E	150W-E	6WT-E	150WT-E											
6" RADIAL FLOW SUBMERSIBLE PUMP					kW	HP	Head in Meters							
6W2E3	150W2E3	6WT2E3	150WT2E3	2	2.2	3.0	75 (3")	18	17	12	10	-	-	-
6W3E5	150W3E5	6WT3E5	150WT3E5	3	3.7	5.0	75 (3")	25	24	18	15	13	-	-
6W4E6	150W4E6/150W4E6-LX	6WT4E6	150WT4E6	4	4.5	6.0	75 (3")	35	33	24	21	18	15	-
6W5E7.5	150W5E7.5	6WT5E7.5	150WT5E7.5	5	5.5	7.5	75 (3")	42	39	29	25	21	17	-
6W5E7.5 S/D	150W5E7.5 S/D	6WT5E7.5 S/D	150WT5E7.5 S/D	5	5.5	7.5	75 (3")	42	39	29	25	21	17	-
6W6E10	150W6E10	6WT6E10	150WT6E10	6	7.5	10.0	75 (3")	50	47	35	30	25	19	12
6W7E10	150W7E10	6WT7E10	150WT7E10	7	7.5	10.0	75 (3")	59	55	41	35	29	22	14
6W8E12.5	150W8E12.5	-	-	8	9.3	12.5	75 (3")	70	64	48	41	34	27	19
6W9E15	150W9E15	-	-	9	11.0	15.0	75 (3")	79	76	60	53	44	35	26
6W10E15	150W10E15	-	-	10	11.0	15.0	75 (3")	88	84	67	59	49	39	29
6W12E17.5	150W12E17.5	-	-	12	13.0	17.5	75 (3")	98	92	71	61	50	40	30
6W14E20	150W14E20	-	-	14	15.0	20.0	75 (3")	125		82	73	60	48	32
6W16E22.5	150W16E22.5	-	-	16	16.8	22.5	75 (3")	130		90	77	61	49	33
6W18E27.5	150W18E27.5	-	-	18	20.5	27.5	75 (3")	158			106	88	70	52
6W20E30	150W20E30	-	-	20	22.4	30.0	75 (3")	176	168		118	98	78	58

Note:
1. 6W - Nema Construction up to 10 HP, 6WT- 3 Piece Construction (Voltage range 300 - 440 volts), with copper rotor
2. 150W - Nema Construction up to 10 HP, 150WT- 3 Piece Construction (Voltage range 200 - 400 volts), with copper rotor
3. Performance figures given above are approximate and may differ on site conditions
4. In 6W & 150W Series, above 10 HP it is 3 piece construction

Performance Chart for 150W / 6W Series - 150 mm Borewell Submersible Pump - Mixed Flow

SERIES : 6W-F / 150W-F / 6WT-F / 150WT-F				No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
Rating ISI	Rating	Rating	Rating					480	650	720	780	840	900	960
6W-F	150W-F	6WT-F	150WT-F											
6" MIXED FLOW SUBMERSIBLE PUMP					kW	HP	Head in Meters							
6W2F4	150W2F4	6WT2F4	150WT2F4	2	3.0	4.0	75 (3")	19	17	14	13	11	-	-
6W3F5	150W3F5/150W3F5-LX	6WT3F5	150WT3F5	3	3.7	5.0	75 (3")	27	24	21	18	16	13	-
6W4F7.5	150W4F7.5	6WT4F7.5	150WT4F7.5	4	5.5	7.5	75 (3")	37	31	28	24	20	16	13
6W5F7.5	150W5F7.5	6WT5F7.5	150WT5F7.5	5	5.5	7.5	75 (3")	46	38	35	30	25	20	16
6W4F7.5 S/D	150W4F7.5 S/D	6WT4F7.5 S/D	150WT4F7.5 S/D	4	5.5	7.5	75 (3")	37	31	28	24	20	16	13
6W5F7.5 S/D	150W5F7.5 S/D	6WT5F7.5 S/D	150WT5F7.5 S/D	5	5.5	7.5	75 (3")	46	38	35	30	25	20	16
6W6F10	150W6F10	6WT6F10	150WT6F10	6	7.5	10.0	75 (3")	56	49	43	38	33	28	23
6W7F12.5	150W7F12.5	-	-	7	9.3	12.5	75 (3")	64	57	49	44	38	33	27
6W8F12.5	150W8F12.5	-	-	8	9.3	12.5	75 (3")	75	63	58	52	45	39	32
6W9F15	150W9F15	-	-	9	11.0	15.0	75 (3")	83	71	64	55	48	40	33
6W10F17.5	150W10F17.5	-	-	10	13.0	17.5	75 (3")	92	79	74	66	56	48	38
6W12F20	150W12F2012	-	-	12	15.0	20.0	75 (3")	112	97	86	76	66	56	46
6W14F25	150W14F25	-	-	14	18.7	25.0	75 (3")	128	113	98	88	76	66	54
6W16F27.5	150W16F27.5	-	-	16	20.6	27.5	75 (3")	150	129	116	104	90	78	64
6W18F30	150W18F30	-	-	18	22.5	30.0	75 (3")	166	145	128	110	96	80	66

SERIES : 6W- G / 150W- G / 6WT- G / 150WT- G				No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
Rating ISI	Rating	Rating	Rating					540	660	744	840	900	960	1050
6W-G	150W-G	6WT-G	150WT-G											
6" MIXED FLOW SUBMERSIBLE PUMP					kW	HP		Head in Meters						
6W2G4	150W2G4	6WT2G4	150WT2G4	2	3.0	4.0	75 (3")	18	17	15	14	13	12	11
6W3G6	150W3G6	6WT3G6	150WT3G6	3	4.5	6.0	75 (3")	27	26	23	23	22	20	18
6W4G7.5	150W4G7.5/150W4G7.5-LX	6WT4G7.5	150WT4G7.5	4	5.5	7.5	75 (3")	36	34	31	30	28	26	24
6W4G7.5 S/D	150W4G7.5 S/D	6WT4G7.5 S/D	150WT4G7.5 S/D	4	5.5	7.5	75 (3")	36	34	31	30	28	26	24
6W5G10	150W5G10	6WT5G10	150WT5G10	5	7.5	10.0	75 (3")	46	44	39	39	37	35	30
6W6G12.5	150W6G12.5	--	--	6	9.3	12.5	75 (3")	55	53	47	45	42	39	36
6W7G15	150W7G15	--	--	7	11.0	15.0	75 (3")	63	60	55	51	49	46	42
6W8G15	150W8G15	--	--	8	11.0	15.0	75 (3")	72	68	63	58	56	53	48
6W9G17.5	150W9G17.5	--	--	9	13.0	17.5	75 (3")	81	78	71	65	63	59	54
6W10G20	150W10G20	--	--	10	15.0	20.0	75 (3")	90	88	79	77	75	70	60
6W12G25	150W12G25	--	--	12	18.7	25.0	75 (3")	108	104	95	92	90	88	72
6W14G27.5	150W14G27.5	--	--	14	20.5	27.5	75 (3")	124	120	111	108	105	96	84
6W15G30	150W15G30	--	--	15	22.4	30.0	75 (3")	132	128	119	117	115	105	90

Note:
1. 6W - Nema Construction up to 10 HP, 6WT- 3 Piece Construction (Voltage range 300 - 440 volts), with copper rotor
2. 150W - Nema Construction up to 10 HP, 150WT- 3 Piece Construction (Voltage range 200 - 400 volts), with copper rotor
3. Performance figures given above are approximate and may differ on site conditions
4. In 6W & 150W Series, above 10 HP it is 3 piece construction

Performance Chart for 150W / 6W Series- 150 mm Borewell Submersible Pump - Mixed Flow

SERIES : 6W-F / 150W-F / 6WT-F / 150WT-F				Discharge in LPM										
Rating ISI	Rating	Rating	Rating	No of Stages	Motor		Outlet Size in MM	660	720	804	930	1020	1110	1200
6W-F	150W-F	6WT-F	150WT-F											
6" MIXED FLOW SUBMERSIBLE PUMP					kW	HP	Head in Meters							
6W2H5	150W2H5	6WT2H5	150WT2H5	2	3.7	5.0	75 (3")	18	17	15	14	13	12	9
6W3H7.5	150W3H7.5	6WT3H7.5	150WT3H7.5	3	5.5	7.5	75 (3")	28	26	23	22	20	17	14
6W3H7.5 S/D	150W3H7.5 S/D	6WT3H7.5 S/D	150WT3H7.5 S/D	3	5.5	7.5	75 (3")	28	26	23	22	20	17	14
6W4H7.5-100-DX	150W4H7.5-100-DX	6WT3H7.5 S/D		3	5.5	7.5	100 (4")	37	35	33	29	26	23	18
6W4H10	150W4H10	6WT4H10	150WT4H10	4	7.5	10.0	75 (3")	37	35	31	29	27	23	18
6W5H12.5	150W5H12.5	–	–	5	9.3	12.5	75 (3")	46	44	39	36	34	29	23
6W6H15	150W6H15	–	–	6	11.0	15.0	75 (3")	55	53	47	43	41	35	28
6W7H17.5	150W7H17.5	–	–	7	11.0	15.0	75 (3")	64	62	55	50	48	41	32
6W8H20	150W8H20	–	–	8	13.0	17.0	75 (3")	74	70	63	58	54	46	37
6W9H22.5	150W9H22.5	–	–	9	15.0	20.0	75 (3")	83	79	71	65	61	52	41
6W10H25	150W10H25	–	–	10	18.7	25.0	75 (3")	92	88	79	72	68	58	46
6W11H27.5	150W11H27.5	–	–	11	20.5	27.5	75 (3")	101	97	87	79	75	64	51
6W12H30	150W12H30	–	–	12	22.4	30.0	75 (3")	110	106	95	86	82	70	55

SERIES : 6W-O / 150W-O / 6WT-O / 150WT-O				Discharge in LPM										
Rating ISI	Rating	Rating	Rating	No of Stages	Motor		Outlet Size in MM	315	400	444	520	570	620	660
6W-O	150W-O	6WT-O	150WT-O											
6" MIXED FLOW SUBMERSIBLE PUMP					kW	HP	Head in Meters							
6W3O3	150W3O3	6WT3O3	150WT3O3	3	2.2	3.0	65 (2.5")	25	23	22	18	16	13	10
6W4O4	150W4O4	6WT4O4	150WT4O4	4	3.0	4.0	65 (2.5")	32	30	28	23	20	16	13
6W5O5	150W5O5	6WT5O5	150WT5O5	5	3.7	5.0	65 (2.5")	38	35	33	28	24	19	15
6W6O6	150W6O6	6WT6O6	150WT6O6	6	4.5	6.0	65 (2.5")	50	47	44	37	32	26	21
6W8O7.5	150W8O7.5	6WT8O7.5	150WT8O7.5	8	5.5	7.5	65 (2.5")	65	62	57	48	42	34	27
6W8O7.5 S/D	150W8O7.5 S/D	6WT8O7.5 S/D	150WT8O7.5 S/D	8	5.5	7.5	65 (2.5")	65	62	57	48	42	34	27
6W10O10	150W10O10	6WT10O10	150WT10O10	10	7.5	10.0	65 (2.5")	87	83	74	65	56	47	38
6W12O12.5	150W12O12.5	--	--	12	9.3	12.5	65 (2.5")	103	95	87	75	65	54	43
6W14O15	150W14O15	--	--	14	11.0	15.0	65 (2.5")	120	112	103	89	77	64	51
6W15O15	150W15O15	--	--	15	11.0	15.0	65 (2.5")	127	120	110	95	82	68	55
6W16O17.5	150W16O17.5	--	--	16	13.0	17.5	65 (2.5")	139	132	121	105	90	75	60
6W17O17.5	150W17O17.5	--	--	17	13.0	17.5	65 (2.5")	147	140	128	111	95	79	64
6W18O20	150W18O20	--	--	18	15.0	20.0	65 (2.5")	157	149	136	118	101	85	68
6W20O20	150W20O20	--	--	20	15.0	20.0	65 (2.5")	169	157	144	125	107	90	72

SERIES : 6W-N / 150W-N / 6WT-N / 150WT-N				Discharge in LPM										
Rating	Rating	Rating	Rating	No of Stages	Motor		Outlet Size in MM	230	300	370	440	510	580	650
6W-N	150W-N	6WT-N	150WT-N											
6" MIXED FLOW SUBMERSIBLE PUMP					kW	HP	Head in Meters							
6W4N3	150W4N3/ 150W4N3(I)	–	–	4	2.2	3.0	65 (2.5")	35	33	31	27	23	18	10

Note: 1. 6W - Nema Construction up to 10 HP, 6WT- 3 Piece Construction (Voltage range 300 - 440 volts), with copper rotor
2. 150W - Nema Construction up to 10 HP, 150WT- 3 Piece Construction (Voltage range 200 - 400 volts), with copper rotor
3. Performance figures given above are approximate and may differ on site conditions
4. In 6W & 150W Series, above 10 HP it is 3 piece construction

Performance Chart for 175 mm Borewell Submersible Pump

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					500	700	900	1100	1300	1500	1700
		kW	HP		Head in Meters						
J2B4/J2B4-WX	2	3.0	4.0	100 (4")	21	19	17	13	9		
J2B5/J2B5-WX	2	3.0	4.0	100 (4")	24	22	20	17	12	6	
J2B6/J2B6-WX	2	3.7	5.0	100 (4")	28	26	24	21	17	12	8
J3B6/J3B6-WX	3	3.7	5.0	100 (4")	32	29	26	22	15	7	
J3B7.5/J3B7.5-WX	3	4.0	6.0	100 (4")	37	34	31	27	20	12	8

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					500	700	900	1100	1300	1500	1700
		kW	HP		Head in Meters						
J3B12.5/J3B12.5-WX	3	9.3	12.5	100 (4")	52	49	45	41	36	30	22
J4B17.5/J4B17.5-WX	4	13.0	17.5	100 (4")	69	65	60	55	48	40	29
J6B25/J6B25-WX	6	18.6	25.0	100 (4")	104	98	90	82	72	60	44

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					500	700	900	1100	1300	1500	1700
		kW	HP		Head in Meters						
J2B10/J2B10-WX	2	7.5	10.0	100 (4")	36	34	32	29	25	21	16
J3B15/J3B15-WX	3	11.0	15.0	100 (4")	54	51	48	44	38	32	24
J4B20/J4B20-WX	4	15.0	20.0	100 (4")	72	68	64	58	50	42	32
J5B25/J5B25-WX	5	18.6	25.0	100 (4")	90	85	80	73	63	53	40

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					550	750	950	1150	1350	1550	1750
		kW	HP		Head in Meters						
J2B7.5/J2B7.5-WX	2	5.5	7.5	100 (4")	31	29	27	24	20	16	10
J3B10/J3B10-WX	3	7.5	10.0	100 (4")	49	46	43	40	34	27	19
J4B15/J4B15-WX	4	11.0	15.0	100 (4")	66	61	58	53	45	36	25
J5B20/J5B20-WX	5	15.0	20.0	100 (4")	82	76	72	66	56	45	31

Note : 1. J Series - Base voltage 350 volts, J-WX Series - Base voltage 380 volts
2. Performance figure given above are approximate and may differ on site conditions
3. J2B10, J2B7.5-WX, J3B10-WX are ISI models.

Performance Chart for 200 mm Borewell Submersible Pump

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					725	825	1175	1200	1325	1425	1525
		kW	HP		Head in Meters						
J2K10/J2K10-WX	2	7.5	10.0	100 (4")	40	38	33	30	26	22	18
J3K15/J3K15-WX	3	11.0	15.0	100 (4")	60	57	50	45	39	33	27
J4K20/J4K20-WX	4	15.0	20.0	100 (4")	80	76	66	60	52	44	36
J5K25/J5K25-WX	5	18.6	25.0	100 (4")	100	95	82	75	65	55	45
J6K30/J6K30-WX	6	22.4	30.0	100 (4")	120	114	99	90	78	66	54

Performance Chart for 200 mm Borewell Submersible Pump (J-A Series pumps having OD-174 mm)

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					500	700	900	1100	1300	1500	1700
		kW	HP		Head in Meters						
J2A7.5/J2A7.5-WX	2	5.5	7.5	100 (4")	31	30	28	25	22	18	13

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					600	800	1000	1200	1400	1600	1800
		kW	HP		Head in Meters						
J3A12.5/J3A12.5-WX	3	9.3	12.5	100 (4")	49	46	44	40	35	30	22

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					760	940	1120	1300	1480	1660	1840
		kW	HP		Head in Meters						
J2A10/J2A10-WX	2	7.5	10.0	100 (4")	34	33	31	28	25	21	14
LJ3K15/LJ3K15-WX	3	11.0	15.0	100 (4")	53	51	48	44	40	34	24
J4A20/J4A20-WX	4	15.0	20.0	100 (4")	68	66	62	56	50	42	28
J5A25/J5A25-WX	5	18.6	25.0	100 (4")	87	84	79	72	65	55	38

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					650	850	1050	1250	1450	1650	1850
		kW	HP		Head in Meters						
J3A10/J3A10-WX	3	7.5	10.0	100 (4")	45	42	39	35	29	22	13

Performance Chart for 200 mm Borewell Submersible Pump

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					350	900	1400	1600	1900	2025	2100
		kW	HP		Head in Meters						
J2L10/J2L10-WX	2	7.5	10.0	100 (4")	42	35	30	27	19	15	12
J3L15/J3L15-WX	3	11.0	15.0	100 (4")	59	53	46	41	24	16	13
J4L20/J4L20-WX	4	15.0	20.0	100 (4")	87	73	63	57	41	33	27
J2L12.5/J2L12.5-WX	2	9.3	12.5	100 (4")	45	38	33	30	22	18	15
J3L17.5/J3L17.5-WX	3	13.0	17.5	100 (4")	62	56	49	44	27	19	16
J4L25/J4L25-WX	4	18.6	25.0	100 (4")	90	76	66	60	44	36	30

Performance Chart for 200 mm Borewell Submersible Pump

Rating	No of Stages	Motor Rating		Outlet Size In MM	Discharge in LPM						
		kW	HP		350	700	900	1400	1600	1900	2000
					Head in Meters						
J3L12.5/J3L12.5-WX	3	9.3	12.5	100(4")	54	49	47	40	34	25	21

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
		kW	HP		850	1050	1250	1450	1650	1850	2050
					Head in Meters						
J3M17.5/J3M17.5-WX	3	13.0	17.5	125 (5")	54	51	48	44	40	35	29
J4M25/J4M25-WX	4	18.5	25.0	125 (5")	72	68	64	59	53	47	39

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
		kW	HP		850	1050	1250	1450	1650	1850	2050
					Head in Meters						
J2N15/J2N15-WX	2	11.0	15.0	125 (5")	42	40	38	36	34	31	27
J3N25/J3N25-WX	3	18.6	25.0	125 (5")	63	60	57	54	51	47	41
J4N30/J4N30-WX	4	22.4	30.0	125 (5")	84	80	76	72	68	62	54

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
		kW	HP		900	1100	1300	1500	1700	1900	2100
					Head in Meters						
J2P20	2	15.0	20.0	125 (5")	44	42	40	38	36	32	22
J3P30	3	22.4	30.0	125 (5")	66	63	60	57	54	48	33

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
		kW	HP		350	450	550	625	750	850	1000
					Head in Meters						
J3V7.5(T)/J3V7.5(T)-WX	3	7.5	10.0	100 (4")	54	51	48	45	39	36	30
J4V12.5(T)/J4V12.5(T)-WX	4	9.3	12.5	100 (4")	72	68	64	60	52	48	40
J5V15(T)/J5V15(T)-WX	5	11.0	15.0	100 (4")	90	85	80	75	65	60	50
J6V17.5(T)/J6V17.5(T)-WX	6	13.0	17.5	100 (4")	108	102	96	90	78	72	60

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
		kW	HP		500	650	800	950	1100	1250	1400
					Head in Meters						
J2V7.5 / J2V7.5-WX	2	5.5	7.5	100 (4")	39	36	33	29	25	19	13
J3V12.5 / J3V12.5-WX	3	9.3	12.5	100 (4")	59	54	50	44	38	29	20
J4V15 / J4V15-WX	4	11.0	15.0	100 (4")	78	72	66	58	50	38	26
J5V20 / J5V20-WX	5	15.0	20.0	100 (4")	98	90	83	73	63	48	33
J6V22.5 / J6V22.5-WX	6	16.8	22.5	100 (4")	117	108	99	87	75	57	39

Note : 1. J Series - Base voltage 350 volts, J-WX Series - Base voltage 380 volts
2. Performance figure given above are approximate and may differ on site conditions
3. J2V7.5-WX, J3M17.5-WX are ISI models
4. J2A10-WX, J2L12.5-WX, J2A7.5-WX are ISI models
5. J-A Series pumps having OD-174 mm

Performance Chart for 150 mm Borewell Submersible Pump - Slim Series

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM						
		kW	HP			720	840	890	930	1050	1210	1250
						Head in Meters						
J4M65-10SL	4	7.5	10.0	100 (4")	--	37	35	33	32	28	20	

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM						
		kW	HP			480	965	1060	1150	1200	1250	1300
						Head in Meters						
J5M67E-12.5SL	5	9.3	12.5	100 (4")	--	42	38	33	30	26	42	

Performance Chart for 200 mm Borewell Submersible Pump - Mixed Flow

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM						
		kW	HP			500	900	1150	1350	1450	1650	1700
						Head in Meters						
CJM35-0210	2	7.50	10.0	100(4")	--	35	32	30	28	25	20	20

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM						
		kW	HP			920	1300	1600	1800	2000	2150	2200
						Head in Meters						
CJM40-0215	2	11.0	15.0	100(4")	--	42	38	33	28	23	15	20

Performance Chart for 8W Series - 200 mm Borewell Submersible Pump - Mixed Flow

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM						
		kW	HP			500	700	750	900	980	1080	1165
						Head in Meters						
8W3H10	3	7.5	10.0	100 (4")	Yes	48	41	37	32	28	23	19
8W4H12.5	4	9.3	12.5	100 (4")	Yes	62	53	48	42	36	30	24
8W5H15	5	11.0	15.0	100 (4")	Yes	78	66	60	53	45	38	30
8W6H20	6	15.0	20.0	100 (4")	Yes	98	83	75	66	56	47	38
8W7H20	7	15.0	20.0	100 (4")	Yes	109	93	84	74	63	53	42
8W8H25	8	18.6	25.0	100 (4")	Yes	130	110	100	88	75	63	50
8W9H27.5	9	20.5	27.5	100 (4")	Yes	146	124	112	98	84	70	56
8W10H30	10	22.4	30.0	100 (4")	Yes	163	138	125	109	94	78	63
8W11H35	11	26.1	35.0	100 (4")	--	179	152	138	120	103	86	69
8W12H40	12	29.8	40.0	100 (4")	--	196	166	150	131	113	94	76

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM						
		kW	HP			630	840	900	1060	1140	1230	1310
						Head in Meters						
8W3J12.5	3	9.3	12.5	100 (4")	Yes	55	47	42	37	32	26	21
8W4J15	4	11.0	15.0	100 (4")	Yes	68	58	52	46	39	33	26
8W5J20	5	15.0	20.0	100 (4")	Yes	85	72	65	57	49	41	33
8W6J25	6	18.6	25.0	100 (4")	Yes	109	93	84	74	63	53	42
8W7J27.5	7	20.5	27.5	100 (4")	Yes	127	108	98	86	74	61	49
8W8J30	8	22.4	30.0	100 (4")	Yes	135	115	104	91	78	65	52
8W9J35	9	26.1	35.0	100 (4")	Yes	164	139	126	110	95	79	63
8W10J40	10	29.8	40.0	100 (4")	Yes	182	154	140	123	105	88	70
8W11J45	11	33.6	45.0	100 (4")	--	200	169	154	135	116	97	77
8W12J50	12	37.3	50.0	100 (4")	--	218	185	168	148	126	106	84

Performance Chart for 8W Series - 200 mm Borewell Submersible Pump - Mixed Flow

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM							
		kW	HP			600	720	820	900	1050	1140	1230	1310
						Head in Meters							
8W2K10	2	7.5	10.0	100 (4")	Yes	39	36	33	30	26	23	19	15
8W3K15	3	11.0	15.0	100 (4")	Yes	59	54	50	45	39	34	28	23
8W4K20	4	15.0	20.0	100 (4")	Yes	78	72	66	60	53	45	38	30
8W5K25	5	18.6	25.0	100 (4")	Yes	98	90	83	75	66	56	47	38
8W6K30	6	22.4	30.0	100 (4")	Yes	117	108	99	90	79	68	56	45
8W7K35	7	26.1	35.0	100 (4")	Yes	137	126	116	105	92	79	66	53
8W8K40	8	29.8	40.0	100 (4")	Yes	156	144	132	120	105	90	75	60
8W9K45	9	33.6	45.0	100 (4")	Yes	176	162	149	135	118	101	84	68
8W10K50	10	37.3	50.0	100 (4")	Yes	195	180	165	150	131	113	94	75
8W11K55	11	41.0	55.0	100 (4")	--	215	198	182	165	144	124	103	83
8W12K60	12	44.8	60.0	100 (4")	--	234	216	198	180	157	136	113	90

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM							
		kW	HP			625	795	995	1140	1335	1480	1600	1710
						Head in Meters							
8W2L12.5	2	9.3	12.5	100 (4")	Yes	42	38	36	32	28	24	20	16
8W3L20	3	15.0	20.0	100 (4")	Yes	66	61	57	51	45	38	32	26
8W4L25	4	18.6	25.0	100 (4")	Yes	88	82	75	68	60	51	43	34
8W5L30	5	22.4	30.0	100 (4")	Yes	104	96	88	80	70	60	50	40
8W6L40	6	29.8	40.0	100 (4")	Yes	133	122	113	102	89	77	64	51
8W7L45	7	33.6	45.0	100 (4")	Yes	155	143	131	119	104	89	74	60
8W8L50	8	37.3	50.0	100 (4")	Yes	177	163	150	136	119	102	85	68
8W9L60	9	44.8	60.0	100 (4")	Yes	199	184	169	153	134	115	96	77
8W10L60	10	44.8	60.0	100 (4")	--	208	192	176	160	140	120	100	80
8W11L65	11	48.5	65.0	100 (4")	--	229	211	194	176	154	132	110	88
8W12L75	12	55.0	75.0	100 (4")	--	250	230	211	192	168	144	120	96

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM							
		kW	HP			600	700	800	1000	1200	1400	1600	1800
						Head in Meters							
8W2Q10	10.0	2	7.5	100 (4")	--	33		32	31	28	25	21	13
8W3Q15	15.0	3	11.0	100 (4")	--	50	49	48	46	42	38	31	19
8W4Q20	20.0	4	15.0	100 (4")	--	66	65	64	61	56	50	41	25
8W5Q25	25.0	5	18.5	100 (4")	--	83	81	80	76	70	63	51	31
8W6Q30	30.0	6	22.0	100 (4")	--	99	97	96	92	84	75	62	38
8W7Q35	35.0	7	26.1	100 (4")	--	116	114	112	107	98	88	72	44
8W8Q40	40.0	8	29.8	100 (4")	--	132	130	128	122	112	100	82	50

Note : 1. Performance figure given above are approximate and may differ on site conditi

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Performance Chart for 8W Series - 200 mm Borewell Submersible Pump - Mixed Flow

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM							
		kW	HP			600	700	800	1000	1200	1400	1600	1800
						Head in Meters							
8W2U12.5	2	9.3	12.5	100 (4")	–	37	36	35	34	33	30	26	17
8W3U17.5	3	13.0	17.5	100 (4")	–	55	54	53	51	49	45	39	26
8W4U25	4	18.5	25.0	100 (4")	–	74	72	71	68	65	60	52	34
8W5U30	5	22.0	30.0	100 (4")	–	92	90	89	86	82	76	66	43
8W6U35	6	26.1	35.0	100 (4")	–	110	108	106	103	98	91	79	52
8W7U40	7	29.8	40.0	100 (4")	–	129	126	124	120	114	106	92	60
8W8U50	8	37.3	50.0	100 (4")	–	147	145	142	137	130	121	105	69

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM							
		kW	HP			600	950	1180	1320	1570	1750	1900	2030
						Head in Meters							
8W2M15	2	11.0	15.0	125 (5")	Yes	42	38	36	32	28	24	20	16
8W3M20	3	15.0	20.0	125 (5")	Yes	60	55	51	46	40	35	29	23
8W4M30	4	22.4	30.0	125 (5")	Yes	83	77	71	64	56	48	40	32
8W5M35	5	26.1	35.0	125 (5")	Yes	104	96	88	80	70	60	50	40
8W6M45	6	33.6	45.0	125 (5")	Yes	125	115	106	96	84	72	60	48
8W7M50	7	37.3	50.0	125 (5")	Yes	146	134	124	112	98	84	70	56
8W8M60	8	44.8	60.0	125 (5")	Yes	166	154	141	128	112	96	80	64
8W9M65	9	48.5	65.0	125 (5")	--	187	173	158	144	126	108	90	72
8W10M70	10	52.2	70.0	125 (5")	--	208	192	176	160	140	120	100	80
8W11M75	11	55.0	75.0	125 (5")	--	229	211	194	176	154	132	110	88

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM							
		kW	HP			670	1020	1320	1500	1790	1980	2130	2200
						Head in Meters							
8W2N15	2	11.0	15.0	125 (5")	Yes	39	36	33	30	26	23	19	15
8W3N25	3	18.6	25.0	125 (5")	Yes	62	58	53	48	42	36	30	24
8W4N35	4	26.1	35.0	125 (5")	Yes	83	77	71	64	56	48	40	32
8W5N45	5	33.6	45.0	125 (5")	Yes	104	96	88	80	70	60	50	40
8W6N50	6	37.3	50.0	125 (5")	Yes	125	115	106	96	84	72	60	48
8W7N55	7	41.0	55.0	125 (5")	Yes	146	134	124	112	98	84	70	56
8W8N65	8	48.5	65.0	125 (5")	--	166	154	142	128	112	96	80	64
8W9N75	9	55.0	75.0	125 (5")	--	187	173	159	144	126	108	90	72

Rating	No of Stages	Motor		Outlet Size in MM	ISI Marking	Discharge in LPM							
		kW	HP			920	1260	1570	1620	1980	2140	2280	2330
						Head in Meters							
8W2P20	2	15.0	20.0	125 (5")	Yes	44	41	38	34	30	26	21	17
8W3P30	3	22.4	30.0	125 (5")	Yes	66	61	57	51	45	38	32	26
8W4P40	4	29.8	40.0	125 (5")	Yes	88	82	75	68	60	51	43	34
8W5P50	5	37.3	50.0	125 (5")	Yes	111	102	94	85	74	64	53	43
8W6P60	6	44.8	60.0	125 (5")	Yes	133	122	113	102	89	77	64	51
8W7P70	7	52.2	70.0	125 (5")	--	155	143	132	119	104	89	74	60
8W8P75	8	55.0	75.0	125 (5")	--	177	163	151	136	119	102	85	68

Performance Chart for CG8 Series - 200 mm Borewell Submersible Pump - Mixed Flow

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM					
					500	900	1130	1300	1394	1500
		kW	HP		Head in Meters					
CG8V2M17-10	2	7.50	10.0	75 (3")	40	33	30	26	22	18
CG8VT3M17-15/CG8V3M17-15	3	11.0	15.0	75 (3")	60	50	45	39	33	27
CG8V4M17-20	4	15.0	20.0	75 (3")	80	67	60	52	44	36
CG8V5M17-25	5	18.50	25.0	75 (3")	100	83	75	65	55	45
CG8V6M17-30	6	22.0	30.0	75 (3")	120	100	90	78	66	54

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM					
					500	900	1130	1300	1394	1500
		kW	HP		Head in Meters					
CG8VT3M25-10/CG8V3M25-10	3	7.5	10.0	100(4")	39	32	29	23	16	
CG8VT3M35-12.5/CG8V3M35-12.5	3	9.3	12.5	100(4")	44	37	34	28	20	16

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM					
					250	900	1150	1550	1750	1850
		kW	HP		Head in Meters					
CG8VT2M18-10/CG8V2M18-10	2	7.5	10.0	100 (4")	38	33	30	25	22	18
CG8VT3M18-15/CG8V3M18-15	3	11.0	15.0	100 (4")	57	50	45	39	33	27
CG8VT4M18-20/CG8V4M18-20	4	15.0	20.0	100 (4")	76	67	60	52	44	36
CG8VT5M18-25/CG8V5M18-25	5	18.5	25.0	100 (4")	95	83	75	65	55	45
CG8VT6M18-30/CG8V6M18-30	6	22.0	30.0	100 (4")	114	100	90	78	66	54
CG8VT7M18-35	7	26.0	35.0	100 (4")	133	117	105	91	77	63
CG8VT8M18-40	8	30.0	40.0	100 (4")	152	133	120	104	88	72
CG8VT9M18-45	9	33.0	45.0	100 (4")	171	150	135	117	99	81
CG8VT10M18-50	10	37.0	50.0	100 (4")	190	167	150	130	110	90

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM					
					1460	1700	1800	1910	2030	2110
		kW	HP		Head in Meters					
CG8VT3M 22-25	3	18.5	25.0	100 (4")	54	48	45	42	39	36
CG8VT4M 22-35	4	26.0	35.0	100 (4")	72	64	60	56	52	48
CG8VT5M 22-45	5	33.0	45.0	100 (4")	90	80	75	70	65	60

Note : 1. Performance figure given above are approximate and may differ on site conditions
2. CG8VT- with 3 piece construction, PVC wire & Copper rotor
CG8V- with NEMA construction, polywrap wire & Copper rotor

Performance Chart for CG8 Series - 200 mm Borewell Submersible Pump - Mixed Flow

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM					
					950	1260	1550	1870	2000	2140
		kW	HP		Head in Meters					
CG8VT2M20-12.5/CG8V2M20-12.5	2	9.3	12.5	100 (4")	38	33	30	22	18	15
CG8VT3M20-17.5/CG8V3M20-17.5	3	13.0	17.5	100 (4")	57	50	45	33	27	23
CG8VT4M20-25/CG8V4M20-25	4	18.5	25.0	100 (4")	76	66	60	44	36	30
CG8VT5M20-30/CG8V5M20-30	5	22.0	30.0	100 (4")	95	83	75	55	45	38
CG8VT6M20-35	6	26.0	35.0	100 (4")	114	100	90	66	54	46
CG8VT7M20-40	7	30.0	40.0	100 (4")	133	116	105	77	63	53
CG8VT8M20-50	8	37.0	50.0	100 (4")	152	133	120	88	72	61

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM					
					1645	1810	1915	2090	2200	2340
		kW	HP		Head in Meters					
CG8VT2M21-15/CG8V2M21-15	2	11.0	15.0	100 (4")	30	26	24	20	18	14
CG8VT3M21-20/CG8V3M21-20	3	15.0	20.0	100 (4")	45	39	36	30	27	21
CG8VT4M21-30/CG8V4M21-30	4	22.0	30.0	100 (4")	60	52	48	40	36	28
CG8VT4M21-35	5	26.0	35.0	100 (4")	75	65	60	50	45	35

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM					
					1590	2055	2170	2260	2440	2530
		kW	HP		Head in Meters					
CG8VT2M23-20/CG8V2M23-20	2	15.0	20.0	100 (4")	38	32	30	28	24	22
CG8VT3M23-30/CG8V3M23-30	3	22.0	30.0	100 (4")	57	48	45	42	36	33
CG8VT4M23-40	4	30.0	40.0	100 (4")	76	64	60	56	48	44
CG8VT5M23-50	5	37.0	50.0	100 (4")	95	80	75	70	60	55

Note : 1. Performance figure given above are approximate and may differ on site conditions
2. CG8VT- with 3 piece construction, PVC wire & Copper rotor
CG8V- with NEMA construction, polywrap wire & Copper rotor

Performance Chart for 250 mm Borewell Submersible Pump (Motor Size 200 mm) - Mixed Flow

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					1000	1400	1625	1750	1900	2000	2100
		kW	HP		Head in Meters						
D2R25	2	18.6	25.0	150 (6")	50	46	44	42	40	38	36
D3R40	3	29.8	40.0	150 (6")	75	69	66	63	60	57	54
D4R50	4	37.3	50.0	150 (6")	100	92	88	84	80	76	72
D5R65	5	48.5	65.0	150 (6")	125	115	110	105	100	95	90
D6R80	6	60.0	80.0	150 (6")	150	138	132	126	120	114	108

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					1500	1750	2500	2650	2800	2950	3050
		kW	HP		Head in Meters						
D2S30	2	22.4	30.0	150 (6")	42	40	36	34	32	30	26
D3S45	3	33.6	45.0	150 (6")	63	60	54	51	48	45	39
D4S60	4	44.8	60.0	150 (6")	84	80	72	68	64	60	52
D5S80	5	60.0	80.0	150 (6")	105	100	90	85	80	75	65

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					1600	1800	2150	2400	2750	3000	3200
		kW	HP		Head in Meters						
D2Q25	2	18.6	25.0	150 (6")	40	38	34	32	28	24	20
D3Q40	3	29.8	40.0	150 (6")	60	57	51	48	42	36	30
D4Q50	4	37.3	50.0	150 (6")	80	76	68	64	56	48	40
D5Q65	5	48.5	65.0	150 (6")	100	95	85	80	70	60	50
D6Q80	6	60.0	80.0	150 (6")	120	114	102	96	84	72	60

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					1500	2100	2450	2700	2950	3100	3250
		kW	HP		Head in Meters						
D2T40	2	29.8	40.0	150 (6")	48	44	42	40	36	34	32
D3T60	3	44.8	60.0	150 (6")	72	66	63	60	54	51	48
D4T80	4	60.0	80.0	150 (6")	96	88	84	80	72	68	64

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM						
					1400	2000	2500	2700	3200	3650	4000
		kW	HP		Head in Meters						
D2U50	2	37.3	50.0	150 (6")	68	60	52	48	40	30	20
D3U75	3	55.0	75.0	150 (6")	102	90	78	72	60	45	30

Note : 1. Performance figure given above are approximate and may differ on site conditions

Openwell Submersible
Monoset Pump
With Copper Roter

Features

- Stainless Steel Shaft- No Corrosion
- Thrust Bearing- Carbon v/s Stainless Steel
- Efficient Motor Design - Optimum Output with Low Power Consumption
- Stamping Lamination - High Permeability Steel with Long Life & Increased Efficiency

Application
- Farm & Drip Irrigation
- Drinking Water Supplies
- Sprinkler Irrigation

Standard Specification
- Range : 1.0 HP to 30 HP (0.75 kW to 22 kW)
- Supply : 415V for 3 Phase, 220V for 1 Phase
- Delivery Pipe size : 1 Phase 50 to 65 mm, 3 Phase 32 to 100 mm
- Total head : Upto 78 Meters
- Capacity : Upto 2225 LPM
- Liquid : Clear Water
- Rotation : Clockwise as viewed from motor end

Electric Motor
- Connection : STAR upto 7.5HP, STAR DELTA from10 HP & above
- Motor Body: Cast Iron/Stainless Steel
- Bush: Bronze • Water Filled Motor

Performance Chart for OW Series - Openwell Submersible Pump (3 Phase)

Rating	Motor		Outlet Size in MM	Head in Meters							
				9	12	15	18	21	24	27	30
	kW	HP		Discharge in LPM							
OWHE12(3PH)	0.75	1.0	25(1")				140	130	100	70	
OWG1.52SS	1.1	1.5	32(1.2")			270	245	220	185	130	35
OWK22SS	1.5	2.0	40(1.5")		305	285	265	245	220	185	110
OWM22SS/OWM22SS(I)	1.5	2.0	50(2")	475	430	375	310	130			

Rating	Motor		Outlet Size in MM	Head in Meters							
				6	9	12	15	18	24	27	33
	kW	HP		Discharge in LPM							
OWKS32	2.2	3.0	40(1.5")							270	80
OWN32/OWN32LV	2.2	3.0	50(2")		740	660	590	500	210		
OWN32(1PH)-WOP	2.2	3.0	50(2")		740	660	590	500	210		
OWNH32/OWNH32LV	2.2	3.0	50(2")					590	390	250	
OWNH32(1PH)-WOP	2.2	3.0	50(2")					590	390	250	
OWO32/OWO32LV	2.2	3.0	65(2.5")			800	720	580			
OWO32(1PH)-WOP	2.2	3.0	65(2.5")			800	720	580			
OWS32/OWS32LV	2.2	3.0	100(4")	1180	950	675	300@13.5M				
OWNH52/ OWNH52LV	3.7	5.0	50(2")				850	810	600	520	200
OWN52(1PH)-WOP	3.7	5.0	50(2")				662		550		326@35M
OWO52/OWO52LV	3.7	5.0	65(2.5")			840	800	750	570	400	
OWO52(1PH)-WOP	3.7	5.0	65(2.5")				950	850	520		
OWP52/OWP52LV	3.7	5.0	65(2.5")			1220	1080	940	450		
OWQ52/OWQ52LV	3.7	5.0	80(3")		1400	1220	1080	940	450		
OWS52/OWS52LV	3.7	5.0	100(4")	1550	1350	1160	940	450			

Note : 1. Performance figure given above are approximate and may differ on site conditions
2. 3HP/5HP Single Phase Openwell Pumps are available without control panel

Performance Chart for OW Series - Openwell Submersible Pump (3 Phase)

Rating	Motor		Outlet Size in MM	Head in Meters							
				15	21	24	30	33	39	42	44
	kW	HP		Discharge in LPM							
OWN32LV-VX✸	2.2	3.0	50 (2")	640	440	260					
OWM52LV-VX✸	3.7	5.0	50 (2")			415	380	360	280	230	200

Rating	Motor		Outlet Size in MM	Head in Meters							
				33	36	39	42	45	51	54	57
	kW	HP		Discharge in LPM							
OWKS52	3.7	5.0	50 (2")		400	360	310	250	180@48M		
OWNS7.52/OWNS7.52LV	7.5	10.0	100 (4")	660	615	570	530	470	350	275	200

Rating	Motor		Outlet Size in MM	Head in Meters							
				10	15	18	21	24	30	33	36
	kW	HP		Discharge in LPM							
OWP7.52/OWP7.52LV	5.5	7.5	65 (2.5")				1000	975	850	770	580
OWQ7.52/OWQ7.52LV	5.5	7.5	80 (3.1")				1200	1075		700	400
OWS7.52/OWS7.52LV	5.5	7.5	100 (4")	1750	1475	1325	1100	550			

Rating	Motor		Outlet Size in MM	Head in Meters							
				12	15	21	24	27	33	36	39
	kW	HP		Discharge in LPM							
OWPH10.2	7.5	10.0	65 (2.5")			1310	1290	1240	1060	940	740
OWR10.2	7.5	10.0	75 (3")		1850	1600	1450	1275	700		
OWQH10.2	7.5	10.0	75 (3")					1250	900	700	485
OWS10.2	7.5	10.0	100 (4")	2000	1900	1650	1475	1250			
OWQH12.52	9.3	12.5	80 (3.1")				1530	1420	1000	700	
OWS12.52	9.3	12.5	100 (4")			2100	1925	1800	1300		
OWS15.2	11.0	15.0	100 (4")			2225	2100	1970	1500	1250	

Rating	Motor		Outlet Size in MM	Head in Meters							
				24	30	33	48	51	60	72	78
	kW	HP		Discharge in LPM							
OWNH10.2	7.5	10.0	50 (2")			675	500	400			
OWPH12.52	9.3	12.5	65 (2.5")		1175	1125	480				
OWNH15.2	11.0	15.0	50 (2")					540	480	380	280
OWPH15.2	11.0	15.0	65 (2.5")		1270	1220	780	550			
OWR15.2	11.0	15.0	75 (3")	1950	1700	1600	900@42M				
OWPH17.52	13.0	17.5	65 (2.5")		1400	1340	680	500			
OWQH17.52	13.0	17.5	80 (3.1)		1675	1640	750				
OWPH20.2	15.0	20.0	65 (2.5")				1200	1150	825		
OWR20.2	15.0	20.0	75 (3")		1850	1750	1000	800			
OWPH25.2	18.5	25.0	65 (2.5")				1475	1375	1075	575	
OWR25.2	18.5	25.0	75 (3")			2100	1525	1400			
OWPH30.2	22.0	30.0	65 (2.5")				1600	1550	1300	850	500
OWR30.2	22.0	30.0	75 (3")			2200	1700	1575	1100		

Performance Chart for SHO-AQ Series - Openwell Submersible Pump (3 Phase)

Rating	Motor		Outlet Size in MM	ISI Marking	Head in Meters							
					10	15	18	20	32	34	40	43
	kW	HP			Discharge in LPM							
SHONL32TAQCI✷	2.2	3.0	50(2")	Yes	715	550	450	350				
SHONM752TAQCI✷	5.5	7.5	50(2")						540	515	370	240

Performance Chart for SHO-AQ Series - Openwell Submersible Pump (3 Phase)

Rating	Motor		Outlet Size in MM	ISI Marking	Head in Meters							
					15	18	20	22	24	26	28	30
	kW	HP			Discharge in LPM							
SHONM32TAQCI✷	2.2	3.0	50(2")	Yes	640	580	500	380	240			
SHONM52TAQCI34✷	3.7	5.0	50(2")	Yes			860	790	720	640	530	400
SHOPL52TAQCI✷	3.7	5.0	65(2.5")	Yes	1180	1050	950	800	630			
SHONM52TAQCI✷	3.7	5.0	50(2")	Yes	970	830	750	700	570	475	315	

Note : 1. Performance figure given above are approximate and may differ on site conditions
2. The performance declaration of ISI pumps may vary with respect to this catalogue ✷- With Aluminium Rotor

Openwell Submersible Monoset Pump (1 Phase)

Features

- Easy Installation & Low Operating Cost
- Motor - Fitted With Gun Metal Bushes
- All Internal Parts - Coated with Primer to Avoid Corrosion
- Provided with High Quality Bend & Strainer

Application

- Domestic Water Supply
- Farms & Gardens
- Car Washing
- Water supply in Hotels, Flats & Garages

Standard Specifications

- Range: 0.5 HP to 2.0 HP (0.37 kW to 1.5 kW)
- Supply: 220 V for 1 Phase
- Outlet size: 25 mm, 32 mm, 40 mm, 50 mm
- Total head: Upto 39 Meters
- Liquid: Clear Water
- Capacity: Upto 475 LPM
- Rotation: Clockwise as viewed from motor end

Electric Motor

- Thrust Bearing - Carbon v/s Stainless Steel for Low Wear
- Motor Body: Stainless Steel
- Water Filled Motor

Performance Chart for Openwell Submersible Pump (1 Phase)

Rating	Motor		Outlet Size in MM	ISI Marking	Head in Meters						
	kW	HP			6	9	12	18	20	27	30
					Discharge in LPM						
SWD0.5/1	0.37	0.5	25(1")	Yes		130	121	79	24		
SWD 1.0/1	0.75	1.0	25(1")	Yes		150	140	120	105	60	
OWHD052-18VX	0.37	0.5	25(1")	-	140	130	110	47	20		
OWHE12-27N	0.75	1.0	25(1")	-			170	130	110	30	
OWHE12-27NK	0.75	1.0	25(1")	-			170	130	110	30	
OWHE12-30	0.75	1.0	25(1")	Yes					140	90	60

Rating	Motor		Outlet Size in MM	ISI Marking	Head in Meters						
	kW	HP			21	24	27	30	33	36	39
					Discharge in LPM						
OWHE1.52	1.1	1.5	25(1")	-	135	125	115	105	90	65	36

Rating	Motor		Outlet Size in MM	ISI Marking	Head in Meters						
	kW	HP			9	12	15	18	21	24	30
					Discharge in LPM						
OWG1.52SS(1PH)	1.1	1.5	32(1.2")	-			270	245	220	185	35
OWK22SS(1PH)	1.5	2.0	40(1.5")	-		305	285	265	245	220	110
OWM22SS(1PH)	1.5	2.0	50(2")	-	475	430	375	310	130		

Note : 1. Performance figure given above are approximate and may differ on site conditions
2. The performance declaration of ISI pumps may vary with respect to this catalogue

Two Stage Openwell Submersible Monoset Pump

Features

- Monoset Construction
- Robust Design - Suitable for Adverse Conditions
- Motor Body - Cast Iron Construction for Sturdiness & Long Life
- Stainless Steel Sleeves & Thrust Bearing - Longer Life
- Motor is Water Lubricated & Fitted with Good Quality of Oil Seal
- Dynamically Balanced Rotor & Impellers for Long Life

Application

- Farm Irrigation
- Drip Irrigation
- Drinking Water Supplies
- Sprinkler Irrigation

Standard Specifications

- Range : 1.5 HP to 2.0 HP (1.1 kW to 1.5 kW)- 1 Phase
- Supply : 220 V for 1 Phase
- Outlet size (mm) : 40 mm
- Total head : Upto 50 Meters
- Capacity : Upto 175 LPM
- Liquid : Clear Water
- Rotation : Clockwise as viewed from motor end

Electric Motor

- Motor Body : Cast Iron / Stainless Steel
- Bush : Bronze
- Motor Shaft : Stainless Steel
- Water Filled Motor

Performance Chart for Two Stage Openwell Submersible Pump (1 Phase)

Rating	Motor		Outlet Size in MM	Head in Meters							
				15	20	25	30	35	40	45	50
	kW	HP		Discharge in LPM							
TOJ1.52SS	1.1	1.5	40(1.5")	170	145	130	110	80	40		
TOJ22SS	1.5	2.0	40(1.5")		175	160	155	135	110	80	20

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

Vertical Openwell Submersible Monoset Pump

Features

- Easy Maintenance
- Wide Voltage Range
- Robust Construction

Application

- Farm Irrigation
- Drip Irrigation
- Drinking Water Supplies
- Sprinkler Irrigation

Standard Specifications

- Range : 1 Phase - 0.5 HP to 1.5 HP (0.37 kW to 1.10 kW)
  3 Phase - 3.0 HP to 20.0 HP (2.2 kW to 15.0 kW)
- Supply : 220 V for 1 Phase, 415 V for 3 Phase
- Outlet size : 32 mm, 50 mm, 100 mm
- Total head : Upto 147 Meters
- Capacity : Upto 2550 LPM
- Liquid : Clear Water
- Rotation : Clockwise as viewed from motor end

Electric Motor

- Thrust Bearing : Stainless Steel
- Motor Body : 1 Phase - Stainless Steel 3 Phase - Cast Iron
- Bush : Bronze

Performance Chart for CGVOS Series - Vertical Openwell Submersible Pump (1 Phase)

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM					
		kW	HP		20	40	60	100	120	180
					Head in Meters					
CGVOS6K-0.5	6	0.37	0.5	32(1.2")	43	33	15			
CGVOS6C-1	6	0.75	1.0	32 (1.2")	41	40	38	34	29	11
CGVOS7B-1	7	0.75	1.0	32(1.2")	53	49	39	14	8	
CGVOS10B-1	10	0.75	1.0	32(1.2")	68	64	53	23	11	
CGVOS9C-1.5	9	1.10	1.5	32 (1.2")	60	57	55	48	41	11

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM					
		kW	HP		20	30	50	60	70	80
					Head in Meters					
CGVOS8R2-1.5	8	1.1	1.5	32 (1.2")	71	68	63	60	57	52
CGVOS9R2-1.5	9	1.1	1.5	32 (1.2")	60	58	49	44	31	24

Note : 1. Performance figure given above are approximate and may differ on site conditions
2. 1PH Pumps are supplied with control panel

Performance Chart for CGVOS Series - Vertical Openwell Submersible Pump (3 Phase)

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM							
					125	170	250	300	340	400	450	520
		kW	HP		Head in Meters							
CGVOS2T25-3	2	2.2	3.0	50 (2")	38	37	35	32	29	26	21	15
CGVOS3T25-5	3	3.7	5.0	50 (2")	57	56	52	48	44	38	32	22
CGVOS4T25-7.5	4	5.5	7.5	50 (2")	76	75	69	64	58	51	42	29
CGVOS5T25-10	5	7.5	10.0	50 (2")	95	93	87	80	73	64	53	37
CGVOS6T25-10	6	7.5	10.0	50 (2")	114	112	104	96	87	77	63	44

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM							
					200	250	340	420	480	550	600	700
		kW	HP		Head in Meters							
CGVOS2T30-5	2	3.7	5.0	65 (2.5")	43	42	39	36	33	30	26	19
CGVOS3T30-7.5	3	5.5	7.5	65 (2.5")	64	63	58	54	50	44	38	28
CGVOS4T30-10	4	7.5	10.0	65 (2.5")	86	84	77	73	66	59	51	37

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM							
					300	450	480	550	650	700	760	820
		kW	HP		Head in Meters							
CGVOS2T35-7.5	2	5.5	7.5	65 (2.5")	42	41	40	37	34	29	24	21
CGVOS3T35-10	3	7.5	10.0	65 (2.5")	63	62	60	56	51	44	36	32
CGVOS4T35-12.5	4	9.3	12.5	65 (2.5")	96	82	80	74	68	59	48	42
CGVOS5T35-15	5	11.0	15.0	65 (2.5")	105	103	100	93	85	73	60	53
CGVOS6T35-17.5	6	13.0	17.5	65 (2.5")	126	124	120	112	102	88	72	64
CGVOS7T35-20	7	15.0	20.0	65 (2.5")	147	144	140	130	119	102	84	74

Rating	No of Stages	Motor		Outlet Size in MM	Discharge in LPM							
					1000	1250	1550	1700	1800	1950	2050	2550
		kW	HP		Head in Meters							
CGVOS2M35HB7.5	2	5.5	7.5	100 (4")	29	24	17	13				
CGVOS2M50HB10	2	7.5	10.0	100 (4")	32	29	22	17	14			
CGVOS3M50HC15	3	11.0	15.0	100 (4")	47	41	33	29	26	21	18	
CGVOS2M60HB12.5	2	9.3	12.5	100 (4")	37	33	27	21	19	15		
CGVOS3M60HB17.5	3	13.0	17.5	100 (4")	56	50	41	32	29	23		
CGVOS2M60HC12.5	2	9.3	12.5	100 (4")	36	33	27	23	21	18		
CGVOS2M70HC15	2	11.0	15.0	100 (4")	38	33	30	27	25	22	19	11
CGVOS3M70HC20	3	15.0	20.0	100 (4")	56	50	45	40	37	33	28	16

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

Centrifugal Monoset Pump (3 Phase)

Features

- Monoset Construction
- Wide Voltage Band
- High Efficiency - Less Power Consumption
- Stainless Steel Sleeve - Less Shaft Wear
- Trouble Free Operations - Low Maintenance
- Compact Size - Less Space
- Robust Design Suitable for Adverse Conditions
- Sealing - Gland Packing

Applications

- Irrigation
- Lift Irrigation
- Hotels Dairies,
- Ornamental Foundations
- Sprinkler And Drip Irrigation
- Construction Sites
- Gardens, Small Farms
- Industries

Standard Specifications

- Range : 0.75 kW to 22.0 kW (1.0HP to 30.0 HP)
- Supply : 415 V, 50Hz, 3 phase AC
- Pipe size : 40 x 32 mm to 150 x 150 mm
- Total head : Upto 75 Meters
- Capacity : Upto 4246 LPM • Liquid : Clear Water
- Rotation : Clockwise as viewed from motor end

Electric Motor

- TEFC, SCR, 2 or 4 Pole (3000 or 1500 RPM Syn. Speed) Electric Motor for 415V, 50Hz, 3 phase AC supply

Performance Chart for MB Series - Centrifugal Monoset Pump (3 Phase)

Rating	Motor		Suc X Del in MM	ISI Marking	Head in Meters							
					6	9	12	15	21	24	30	36
	kW	HP			Discharge in LPM							
MBG12 (3PHASE)	0.75	1.0	40X32	Yes		175	165	150	100	85@22.5M		
MBG1.52	1.1	1.5	40X32	Yes				175	140	115	50@28.5M	
MBK22	1.5	2.0	50X40	Yes		430	405	335	200@18M			
MBKH22	1.5	2.0	50X40	Yes					170	145	110@27M	
MBN22	1.5	2.0	65X50	Yes			500	470	275			
MBK32/MBK32LF	2.2	3.0	50X40	Yes				450	375	285	150@27M	
MBKS32	2.2	3.0	50x40	Yes						250	205	110
MBNL32FS	2.2	3.0	65X50	Yes			725	580		300@19.5M		
MBN32#/MBN32LF	2.2	3.0	65X50	Yes				525	375	275	165@25.5M	
MBP32FS	2.2	3.0	80X65	Yes	1100	990	800	470				
MBQ32#	2.2	3.0	80X80		1130	1020	810	500				
MBS32(I)	2.2	3.0	100X100		1340	1180	1010	800	220@18M			
MBNH52FS	3.7	5.0	65X50	Yes				825	665	545	250	
MBP52	3.7	5.0	80X65	Yes				850	620	450		
MBQ52	3.7	5.0	80X80		1500	1390	1275	1140	700			
MBS52N	3.7	5.0	100X100		1850	1700	1460	1040				
MBP7.52FS	5.5	7.5	80X65	Yes					1080	970	650	
MBS7.52	5.5	7.5	100X100	Yes			1680	1540	1170	840		
MBW7.5	5.5	7.5	150X150		3810	2980	2630@10M					
MBR10.2	7.5	10.0	100X80	Yes						1400	980	700@33M
MBS10.2	7.5	10.0	100X100	Yes				1850	1600	1450	900	
MBW10	7.5	10.0	150X150		4246	3550	2500	2020@13M				
MBS15.2	11.0	15.0	100X100	Yes					2040	1930	1660	1150
MBU20.2	15.0	20.0	125X125		2890	2830	2820	2760	2580	2300	920	

Note : # Also available in (1PH)

Performance Chart for MB Series - Centrifugal Monoset Pump (3 Phase)

Rating	Motor		Suc X Del in MM	ISI Marking	Head in Meters							
					21	24	33	38	45	48	51	75
	kW	HP			Discharge in LPM							
MBK52	3.7	5.0	50X40	Yes		455	330	200				
MBKS52	3.7	5.0	50X40	Yes			260	215	160	120		
MBNS52	3.7	5.0	65X50	Yes			400	280	200@42M			
MBK7.52	5.5	7.5	50X40	Yes			450	395	335	300	260	200@54M
MBN7.52	5.5	7.5	65X50	Yes		780	550	320				
MBNH7.52	5.5	7.5	65X50		750	730	670	560	440@42M			
MBNH10.2	7.5	10.0	65X50	Yes					550	520	480	300@60M
MBP10.2	7.5	10.0	80X65	Yes		1150	880	550				
MBPH10.2	7.5	10.0	80X65	Yes		1150	920	640	400@42M			
MBP12.52	9.3	12.5	80X65	Yes	1250	1245	1170	1010	670			
MBN15.2	11.0	15.0	65X50	Yes							550	310
MBP15.2FS	11.0	15.0	80X65	Yes		1480	1290	1140	950	840	700	
MBR15.2	11.0	15.0	100X80	Yes		1875	1460	1000				
MBR20.2	15.0	20.0	100X80				1900	1600	1100			
MBR25.2	18.5	25.0	100X80							1500	1400	800@60M
MBR30.2	22.0	30.0	100X80							1700	1640	400@69M

Performance Chart for OMB Series - Slow Speed Centrifugal Monoset Pump (3 Phase)

Rating	Motor		Suc X Del in MM	ISI Marking	Head in Meters							
					6	8	9	12	14	16	18	20
	kW	HP			Discharge in LPM							
OMBR5	3.7	5.0	100X80	Yes	1900	1550	1600	1000	600			
OMBS5	3.7	5.0	100X100	Yes	1900	1600	1700	1150	600			
OMBR7.5	5.5	7.5	100X80	Yes				1750	1470	700		
OMBS7.5	5.5	7.5	100X100				2050	1980	1600			

Note : 1. Performance figure given above are approximate and may differ on site conditions
2. The performance declaration of ISI pumps may vary with respect to this catalogue

Centrifugal Monoset Pump (1 Phase)

Features

- Monoset Construction with High Quality Mechanical Seal
- Totally Enclosed Fan Cooled Motor For Better Safety
- Unique Motor Design with Capacitor Start & Run - Eliminating Centrifugal Switch

Standard Specifications

- Range : 0.37 kW to 1.5kW (0.5 to 2.0 HP)
- Supply : 225 Volts, 50 Hz, 1 Phase AC
- Pipe size : 25 x 25 mm to 80 x 80 mm
- Total Head : Upto 33 Meters
- Capacity : Upto 950 LPM
- Liquid : Clear water
- Rotation : Clockwise as viewed from motor end

Applications

- Bungalows, Buildings, Flats
- Hotels, Garages, Laundries
- Car Washing & Booster Application
- Small Farms & Lawn Sprinklers
- Auxiliary Equipment For Machinery
- Ornamental

Performance Chart for Centrifugal Monoset Pump (1 Phase)

Rating	Motor		Suc X Del in MM	ISI Marking	Head in Meters							
					6	7	9	12	15	18	20	21
	kW	HP			Discharge in LPM							
MAD052 / MAD052-VX	0.37	0.5	25X25	-				115	110	80	30	20
MADL052	0.37	0.5	25X25	-	110	100	90	65	40			
MAQ12 / MAQ12LV	0.75	1.0	80X80	-	510	400	365					

Rating	Motor		Suc X Del in MM	ISI Marking	Head in Meters							
					6	9	12	15	18	21	27	30
	kW	HP			Discharge in LPM							
MBD052-VX	0.37	0.5	25X25	-		110	95	75	25			
MBE052	0.37	0.5	32X25	Yes		80	65	50	35	25@19M		
MBJ052NLV(1PH) / MBJ052N(1PH)	0.37	0.5	40X40	-	250	180	80	40@13M				
MBM052NLV(1PH) / MBM052N(1PH)	0.37	0.5	50X50	-	210	190	140	80@14M				
MBD0752-VX	0.75	0.75	25X25	-			190	170	145	120	75@24M	
MBD12	0.75	1.0	25X25	Yes						90	30	
MBD12-VX	0.75	1.0	25X25	-						100	70	30
MBDL12A(1PH)	0.75	1.0	25X25	Yes			82	80	81	80.5	71	45
MBE12(1PH)	0.75	1.0	32X25	Yes					90	85	30	
MBG12	0.75	1.0	40X32	Yes		175	165	150	130	100	85@22M	
MBJ12(1PH)	0.75	1.0	40X40	-		175	165	150	130	100	85@22M	
MBJL12(HT)	0.75	1.0	40X40	-		300	250	200	165@16M			
MBM12(1PH)	0.75	1.0	50X50	Yes		300	250	160				
MBML12(HT)	0.75	1.0	50X50	Yes	400	340	225					
MBM22(1PH)	1.5	2.0	50X50	Yes			550	500	400	200		

Note :1. MA - Aluminium extruded motor body, MB - Cast iron motor body
2. Performance figure given above are approximate and may differ on site conditions
3. (HT) - Mechanical Seal suitable for 110°C available in 3(PH)

Performance Chart for Centrifugal Monoset Pump (1 Phase)

Rating	Motor		Suc X Del in MM	ISI Marking	Head in Meters							
					3	6	9	12	15	21	30	33
	kW	HP			Discharge in LPM							
MBM12(1PH)LV	0.75	1.0	50X50	Yes		245	220	120				
MBK1.52C(1PH)	1.1	1.5	50X40	Yes			410	310	150			
MBKH1.52C(1PH)	1.1	1.5	50X40	Yes				360	300	100@18M		
MBKS1.52C(1PH)	1.1	1.5	50X40	-					175	140	80	50
MBM1.52C	1.1	1.5	50X50	Yes			430	355	250	160@16M		
MBG1.52(1PH)	1.1	1.5	40X32	Yes					175	140	50@28M	
MBN1.52-VX	1.1	1.5	40X32	Yes			470	270	300@13M			
MBK22(1PH)	1.5	2.0	50X40	-			410	395	355	250	200@24M	
MBJ22(1PH)	1.5	2.0	40X40	-						210	130	
NGN22(1PH)/NGN22(I)	1.5	2.0	65X50	-		750	700	620	520	280		
NGQ22(1PH)/NGQ22(I)	1.5	2.0	80X80	Yes	950	910	800	550				

Performance Chart for Monobloc Pump with Shaft Extention (1 Phase)

Rating	Motor		Suc X Del in MM	ISI Marking	Head in Meters							
					6	7	8	9	10	11	12	13
	kW	HP			Discharge in LPM							
MBJ052SF-SE	0.37	0.5	40X40	-			200	180	160	130	60	
MBM12(1PH)-SE	0.50	1.0	50X50	-	525	480	460	400	310	250	230	

Note : 1. Performance figure given above are approximate and may differ on site conditions
2. The performance declaration of ISI pumps may vary with respect to this catalogue

Two Stage Centrifugal Monoset Pumps

Features

- Rugged & Sturdy Design.
- Wear Resistant Shaft & Impeller.
- Back Pullout Design - Easy Maintenance
- Totally Enclosed Fan Cooled (TEFC) motor
- 'B' Class Insulation.
- IP 54 Class Protection

Standard Specifications

- Range : 1.5 HP to 10.0 HP
- Supply : 225V, 50Hz, 1 Phase, 415V, 50Hz, 3 Phase
- Pipe Size : 32 X 25 mm to 65 X 50 mm
- Total Head : upto 82 Mtrs
- Capacity : upto 480 LPM

Applications

- Water supply for Bungalows
- Laundries & Industries
- Booster Application.
- Lawn Sprinklers.
- Buildings, Flats, Hotels
- Car Washing
- Small Farms
- Ornamental Fountains

Performance Chart for Two Stage Centrifugal Monosets (3 Phase)

Rating	Motor		Suc X Del in MM	Head in Meters							
				16	18	21	27	30	36	42	48
	kW	HP		Discharge in LPM							
TMEP1.5(3PH)#	1.1	1.5	32X25	140	135	131	111	98	70		
TMEP2(3PH)#	1.5	2.0	32X25			155	144	135	118	93	50

Rating	Motor		Suc X Del in MM	Head in Meters							
				69	68	66	64	61	57	52	41
	kW	HP		Discharge in LPM							
NGTN7.52	5.5	7.5	65x50	100	150	200	250	300	350	400	480

Rating	Motor		Suc X Del in MM	Head in Meters							
				82	81	80	78	75	71	68	46
	kW	HP		Discharge in LPM							
NGTN10.2	7.5	10.0	65x50	100	150	200	250	300	350	400	480

Note : 1. # Also available in 1 PHASE
2. Performance figure given above are approximate and may differ on site conditions

Centrifugal Monoset Pump (3 Phase)

Features

- Wide Range to Suit a Variety of Requirements
- High Efficiency - Less Power Consumption
- Trouble Free Operations - Low Maintenance
- Compact Size - Less Space
- Sealing - Mechanical Seal for MI Series, Gland Packing for FF Series

Standard Specifications

- Range : 1.5kW to 22kW (2.0HP to 30.0HP)
- Supply : 415V+6% , -15%, 50Hz, 3 Phase
- Pipe size : 50x40 mm to 100x100 mm
- Total Head : Upto 69 Meters
- Capacity : Upto 2140 LPM
- Liquid : Clear Water
- Rotation : Clockwise as viewed from motor end

Electric Motor

- TEFC, SCR, 2Pole (3000RPM Syn. Speed). Electric Motor for 415V+6%, -15%, 50Hz, 3phase, AC supply. With class 'F' Insulation and temperature rise restricted to class 'B' with IP55 Protection

Applications

- Cooling Towers
- Office & Shopping Mall Cooling Systems

Material of Construction

	Impeller	Valute	Shaft	Mechanical Seal	Gland Packing
B	CI	CI	SS	Carbon / Ceramic	x
C	Bronze	CI	SS	Carbon / Ceramic	x
D	SS	CI	SS	Carbon / Ceramic	x

Performance Chart for MI-FF Series - Centrifugal Monoset Pump (3 Phase)

Rating	Motor		Suc X Del in MM	Head in Meters						
				15	18	21	24	27	30	33
	kW	HP		Discharge in LPM						
MIP52FF	3.7	5.0	80 X 65	900	820	720	600	450		
MIP7.52FF	5.5	7.5	80 X 65			1100	1060	980	900	650

Note : 1. Performance figure given above are approximate and may differ on site conditions.
2. MI - FF Pumps are provided in red colour. Generally used for Fire-Fighting application

Performance Chart for MI Series - Centrifugal Monoset Pump (3 Phase)

Rating	Motor		Suc X Del in MM	Head in Meters							
				6	12	15	18	24	27	39	51
	kW	HP		Discharge in LPM							
MIK22B/C/D	1.5	2.0	50X40		405	335	200				
MIK22B(HT)	1.5	2.0	50X40		405	335	200				
MIK32B/C/D	2.2	3.0	50X40			450	425	285	150		
MIKS32B/C/D	2.2	3.0	50X40					250	230	110@36Mtr	
MIN32B/C/D	2.2	3.0	65X50			525	450	275			
MIP32B(HT)	2.2	3.0	65X50	1100	800	470					
MIK52B/C/D	3.7	5.0	50X40					455	415	200	
MIKS52B/C/D	3.7	5.0	50X40							240	120
MINH52B/C/D	3.7	5.0	65X50				825	665	545	250@33M	
MIP52B/C/D	3.7	5.0	80X65				850	620	450		
MIQ52B/C/D	3.7	5.0	80X80	1500	1275	1140	980	700@21M			
MIQ52B(HT)	3.7	5.0	80X80	1500	1275	1140	980	700@21M			
MIS52B/C/D	3.7	5.0	100X100	1850	1460	1040					

Rating	Motor		Suc X Del in MM	Head in Meters							
				15	21	24	30	33	45	48	69
	kW	HP		Discharge in LPM							
MIK7.52-B/C/D	5.5	7.5	50X40					450	335	300	200@54M
MIN7.52-B/C/D	5.5	7.5	65X50			780	650	550			
MIP7.52-B/C/D	5.5	7.5	80X65		1080	970	825@27M				
MIS7.52-B/C/D	5.5	7.5	100X100	1540	1170	840					
MINH10.2-B/C/D	7.5	10.0	65X50						550	520	300@60M
MIP10.2-B/C/D	7.5	10.0	80X65			1150	980	880	550@M		
MIS10.2-B/C/D	7.5	10.0	100X100	1850	1600	1450	900@27M				
MIP15.2-B/C/D	11.0	15.0	80X65		1480	1420	1290	1220	840	700	

Rating	Motor		Suc X Del in MM	Head in Meters							
				18	24	30	33	39	45	48	69
	kW	HP		Discharge in LPM							
MIPH15.2-B/C/D	11.0	15.0	80X65			1240	1230	1165	1010	920	500@54M
MIR15.2-B/C/D	11.0	15.0	100X80		1875	1615	1460		1000@39M		
MIS15.2-B/C/D	11.0	15.0	100X100	2140	1930	1660	1445	1150@36M			
MIR20.2-B/C/D	15.0	20.0	100X80			2000	1900	1600	1100		
MIRH20.2-B/C/D	15.0	20.0	100X80			2000	1900	1650	1360	1170	
MIR25.2-B/C/D	18.5	25.0	100X80							1500	800@60M
MIR30.2-B/C/D	22.0	30.0	100X80							1700	400

Note : Performance figure given above are approximate and may differ on site conditions.
(HT) - Mechanical Seal suitable for 110°C

Dewatering Pump

Features

- Self Priming upto 8.0 Meters at Mean Sea Level
- Construction - Bare Pump/ Monoset/ Motor Coupled
- Shaft Sealing - Gland Packing / Mechanical Seal
- Totally Enclosed Fan Cooled Motor Suitable for Wide Voltage
- Non-clog Type Impeller - To Handle Liquid with Solid Particles
- Easy Maintenance With Interchangeable Parts

Applications

Industrial

- Ash water in Thermal Power Plants
- Waste liquid in Marble factories
- Transfer of Treated / Raw water
- Effluent Treatment Plants

Residential

- Civil Construction Sites
- Swimming Pool Filtration
- Dewatering of Basement Water & Trenches

Performance Chart for DW Series - Dewatering Monobloc Pump

Rating	Suc X Del in MM	kW	HP	RPM	Solid Handling size MM	Head in Meters							
						9	10	12	15	18	19	21	25
						Discharge in LPM							
DWMJ12N	40 X 40	0.75	1.0	2830	7.0		295	260	145				
DIMJ12/ DIMJ12(1PH)	40 X 40	0.75	1.0	2830	7.0		295	260	145				
DWMJ22	40 X 40	1.5	2.0	2830	8.5			410	310	210	145		
DWMM32	50 X 50	2.2	3.0	2830	10.5			560	510	425	370	305	80
DWMQ5	80X80	3.7	5.0	1430	15.5	1125	1060	985	800	550	400		

Rating	Suc X Del in MM	kW	HP	RPM	Solid Handling size MM	Head in Meters							
						21	24	25	27	28	31	34	36
						Discharge in LPM							
DWMQ52	80 X 80	3.7	5.0	2840	7.0	550	480	450	415	380	305	205	125
DWMQ7.52	80 X 80	5.5	7.5	2840	14.5	910	865	820	760	685	520	325	190

Performance Chart for DW Series - Bare Shaft Pump

Rating	Suc X Del in MM	kW	HP	RPM	Solid Handling size MM	Head in Meters							
						12	15	18	20	21	26	27	28
						Discharge in LPM							
DWCS10	100 X 100	7.5	10	1460	18.5	1960	1730	1465	1280	1165	402		
DWCS12.5	100 X 100	9.3	12.5	1460	23.0	2340	2060	1770	1570	1475	805	480	340
DWCV20	150 X 150	15.0	20.0	1460	34.0	3790	3440	2930	2530	2310			
DWCV25	150 X 150	18.7	25.0	1460	40.0	4310	3955	3500	3100	2910	1180		

Rating	Suc X Del in MM	kW	HP	RPM	Solid Handling size MM	Head in Meters							
						20	24	26	28	30	32	34	36
						Discharge in LPM							
DWCQ52	80 X 80	3.7	5.0	2830	7.0	575	480	430	390	340	295	220	125
DWCQ7.52	80 X 80	5.5	7.5	2830	14.5	925	865	810	715	600	460	305	190

Note : 1. Performance figure given above are approximate and may differ on site conditions

Vertical In-line Pumps (3 Phase)

Features

- Vertical In-line Design - Minimum Space Requirement, Easy Installation
- Back Pull-out Design
- Flange Mounted Motor - Easy Maintenance
- Volute & Adaptor - Fitted With Bronze Wear Ring
- High Quality & Long Life Mechanical Seal
- Suitable upto 65°C water with Standard Mechanical Seal & 110°C Water with Special Mechanical Seal
- Rust-free Bronze Impeller

Standard Specifications

- Range : 0.37 kW to 7.5 kW (0.5 HP to 10.0 HP)
- Supply : 415V, 3 Phase, 50Hz, AC
- Pipe size : 32 x 32 mm to 100 x 100 mm
- Total head : Upto 30 Meters
- Capacity : Upto 1400 LPM
- Liquid : Clear water
- Rotation : Anti-clockwise as viewed from motor end

Applications

- Open Loop & Closed Loop Water Circuits
- Water Pressure Boosting for Industrial and Sprinkler Systems
- Water circulation for Cooling Towers in Air Conditioning Plants and Cold Storage Plants
- Water Supply & Circulation for Industrial & Commercial Establishments
- Hot Water Handling Systems
- Auxiliary Equipment for Water Circulation
- Irrigation & Dewatering Systems

Electric Motor

- Voltage : 415V • Phase : 3 phase, 50 Hz, AC • Protection : IP55

Performance Chart for ILM Series - Vertical In-line Pump (3 Phase)

Rating	Motor		Suc X Del in MM	Head in Meters							
				10	12	14	16	18	20	24	30
	kW	HP		Discharge in LPM							
ILM052	0.37	0.5	32X32	135	105	50					
ILM12	0.75	1.0	40X40	240	215	185	130				
ILM22A	1.5	2.0	50X50		400	360	315	250			
ILM32A	2.2	3.0	65X65			575	515	440	340		
ILM52A	3.7	5.0	80X80					875	800	550	
ILM7.52A	5.5	7.5	100X100			1300	1260	1200	1110	850	
ILM10.2A	7.5	10.0	100X100					1400	1320	1180	900

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

DOL Starters

Features

- Excellent Aesthetics
- Flush Mounted Push Buttons
- Built in Overload Relay
- Copper & Aluminum cable terminations possible
- As per IS: 13947-4-1 and IEC: 60947-1 standards
- Wide Band Operating Coil
- Wide Relay Range
- Silver Contacts for Long Life
- Proven Crompton Technology

Applications

- Suitable for Submersible Pump up to 10 HP & Surface Pump upto 15 HP
- Used for Submersible, Surface Mounted Pumps
- Thresher Motors, Wheat Flour Mill Motors etc.

Technical Specifications

Rating	Relay Range	Useful for Centrifugal Pump HP	Useful for Submersible Pump HP
CG1D4065	4-6.5A	3	2
CG1D4065LV	4-6.5A	3	2
CG1D60100	6-10A	5	3
CG1D60100LV	6-10A	5	3
CG1D90140	9-14A	7.5	5
CG1D90140LV	9-14A	7.5	5
CG1D130220	13-22A	10	7.5
CG1D130220LV	13-22A	10	7.5
CG1D200320LV	20-32A	15	10

Note: 1. Selection of Starter depends on pump type- Pump is Centrifugal Monobloc or Submersible. For Example, CG1D2540 will be used for 2 HP Surface Mounted Monobloc and same Starter will be used for 1.5 HP Submersible Pumps, for LV series Voltage range is 170-370 Volts.

STAR DELTA Starters

Features

- Robust construction
- Heavy Duty Deep Drawn sheet metal box
- Excellent powder coated painting for long life
- Excellent aesthetics look
- 16A, AC3 Duty, 4 Pole Contactor. Silver contacts for longer life.
- Wide voltage range from 240V to 450V
- Wide range of relay settings
- Electronic Timer for excellent accuracy & low maintenance
- Flush mounted Twin Push Buttons specially designed for Star Delta Starter

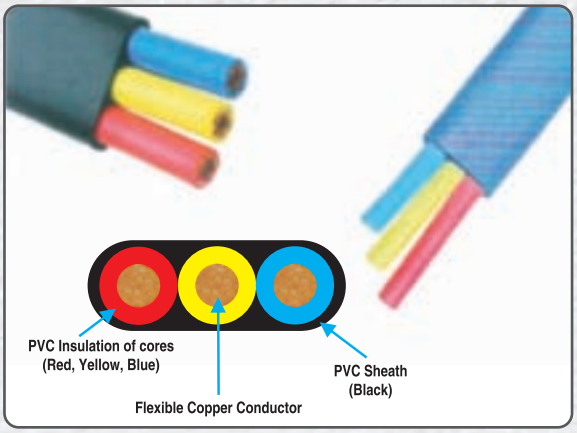
Applications

- Suitable for Pump upto 17.5 HP
- Used for Submersible, Surface Mounted Pump
- Higer HP Motors

Technical Specifications

Rating	Relay Range	Useful for Centrifugal Pump	Useful for Submersible Pump HP
CG1SD60100	6-10A	7.5 &10	5
CG1SD90140	9-14A	12.5	7.5
CG1SD110180	11-18A	15	10
CG1SD130220	13-22A	17.5	12.5, 15 &17.5

Submersible Cables



Features

- Conforming to : ISI 694
- Excellent Resistant to Moisture, Abrasion, Grease, Oil
- Longer Flex Life
- Excellent Mechanical & Electrical Properties
- Temperature Range -150 to +700

Note

- The number of wires is approximate and wire diameter is nominal. They shall be so as to satisfy the requirements of conductor resistance as per
- Class 2 of IS 8130 : 1984 (For 1.5 & 2.5 sq. mm.) &
- Class 5 of IS 8130 : 1984 (For 4.0 to 25 sq. mm.)

Conductor		PVC Insulation	PVC Sheath Conductor			Resistance at 200C (max.)	Current Rating at 400C
Nominal Area in	Nos. Dia of wire	Nominal Thickness	Nominal Thickness	Approx. Overall Dimensions			
				Thickness	Width		
Sq.mm.	Nos./mm	mm	mm	mm	mm	Ohms/km	Amps.
1.5	22/0.30	0.6	0.9	5.20	11.30	12.10	14
2.5	36/0.30	0.7	1.0	6.20	13.30	7.41	18
4.0	56/0.30	0.8	1.0	7.00	15.60	4.95	26
6.0	84/0.30	0.8	1.1	7.40	17.70	3.30	31

GSM Control Panel

GSM pump controller is a device to control and monitor pump from remote location using mobile phone.
In addition it has following features

- ON/OFF through SMS
- Dry run fault
- Over load protection
- Phase fault Protection
- Power present indication
- Timer facility

EMC-30 helps the customer to switch ON/OFF agricultural pump from mobile phone through missed call and it saves manpower, electricity and water
Customer can easily operate pump from any where.
Power condition at site is indicated by SMS to the customer which helps him to plan the pump utility as per power availability
Timer facility is a boon to the farmer to use the pump for effective time of operation without washing the water and energy

Features Overview & Specification

- To start GSM the device should be on "AUTO" mode
- Switch ON/OFF by "MISSED CALL" or "SMS"
- Suitable for 0.5 HP to 20 HP, 3 Phase electric pump
- Control: Maximum upto 4 users
- Suitable for all type of push button starters
- Inbuilt
  Single phase preventer (SPP)
  Dry run preventer
  Wrong sequence Connection
  No Power Detection
- Manual Switch: For manual operation through starter
- Current Status: Sending one SMS
- Power Monitoring: Sends feedback through SMS in case of any power failure & power re-store
- Pump Dry run Protection: The starter gets tripped & device will send error message by SMS
- Overlaod Protection: Device trips at 120% load & send error message by SMS
- Single Phase Preventer: The starter trips and SMS is sent
- Wrong Sequence Detector: In case of wrong phase connection the SPP LED will be in continuous "ON" mode and send SMS
- Dual Language Support: English in the compulsory language. Primary user has authority to enable the second language which is Hindi or all other regional language
- Multi User: Four users can be registered to operate the device
- User Registration: Individual mobile registration is must
- User Deletion: Primary user has authority to delete all the registered users. However individual users can delete their registration
- CT Peak Current Calibration
- Timer: One can set the timer as per need
- SMS: For all above features SMS will be sent automatically to the last interacted user only
- Visual Indications: There are five LEDs to indicate all the functions (Power, Network, Pump On/Off, Dry Run & SPP)
- SMS: For all above features SMS will be sent automatically to the last interacted user only
- Suitable with DOL / Star Delta Starter fully Automatic

Applications

- Agricultural Pump
- Rural/Urban Water supply pumping system
- Farm house pump
- Urban Societies
- Drip/Sprinkler irrigation system
- Farm house pump

Knowledge Centre

Technical Data

Terminology and Head Calculations

1. **CAPACITY (Discharge)** : Rate of flow of liquid measured in litres per minute or gallons per minute.
2. **TOTAL HEAD** : The increase in the pressure energy of the liquid between the suction and delivery flanges measured in metre. (For Water, Head in Mtr = kg/cm2x10)
3. **FRICTIONAL LOSSES** : Resistance by inner surface of pipe and fittings through which liquid is being pumped.
4. **CAVITATION** : The formation of vapour bubbles in a liquid, is a phenomenon involving the appearance and subsequent sudden collapse of vapour bubbles in a flow of liquid.
5. **SUCTION LIFT (Hs)** : Is the vertical distance between pump center line and water level.
6. **DELIVERY HEAD (Hd)** : Vertical distance above the pump centre line to the top most point of the delivery pipe.
7. **N.P.S.H.**: Net Positive Suction Head, it is the pressure in terms of absolute head in metres or in feet at a pump suction branch less vapour pressure of the liquid and frictional losses in suction at its working temperature.
   NPSH has got two components. First one is NPSHa which is site dependant and second one is NPSHr which is derivative of pump design.
   NPSHa should be always greater than NPSHr by minimum 0.5 m.
8. **DUTY POINT** : The pump is designed for one point where the maximum pump efficiency / overall efficiency is achieved. This point is called Duty Point or Operating Point.
9. **PUMP EFFICIENCY**: The ratio of the pump output to the pump input.

$$\text{Thus Pump Efficiency} = \frac{\text{Pump Out put in kW}}{\text{Pump In put (Motor Output in kW)}} \times 100 = \frac{\left[\frac{\text{Total Head (M) X Discharge (LPM)}}{6120}\right]}{\text{Motor Output in kW}} \times 100$$

10. **OVERALL EFFICIENCY** : The ratio of the pump output to the motor input.
    Thus Overall Efficiency = Pump Efficiency x Motor Efficiency

$$= \frac{\text{Pump Output}}{\text{Pump Input}} \times \frac{\text{Motor Output}}{\text{Motor Input}} = \frac{\text{Pump Output}}{\text{Motor Input}}$$

11. **SPECIFIC GRAVITY** : Ratio of weight of given volume of liquid compared to same weight of equal volume of water at standard temperature & pressure. Specific Gravity of water is 1.0. If liquid has Specific gravity other than water (1.0) multiply brake kW for water by specific gravity of liquid to obtain kW required.
12. **VISCOSITY** : Property of Internal Friction of a liquid or resistance to motion of its particles. Measuring a liquid's resistance to flow will give coefficient of viscosity. High viscosity liquids are resistant to flow and appear thick and sluggish. Viscosity is independent of specific gravity and decreases with increase in temperature. Viscous liquids tend to reduce the capacity, head and efficiency while increasing the brake kW required. Centrifugal Pumps may be used for viscosities upto 1000 SSU. Above this limit Rotary positive displacement Pumps are used.

CALCULATION OF TOTAL HEAD

Total head H of the Pumpset is given by :
(Ref. Sketch)

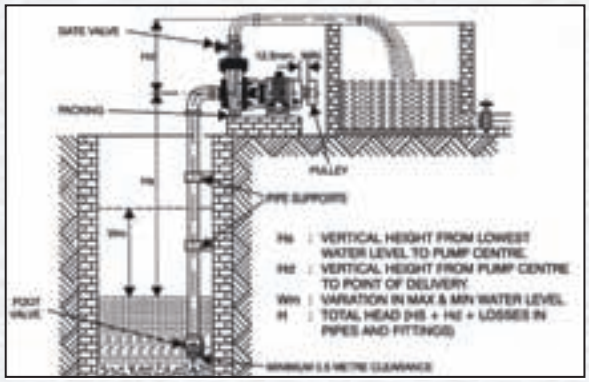
$$H = Hs^* + Hd + hfs^* + hfd + HLf + \frac{Vd^2}{2g}$$

* In case of submersible pumpset Hs & hfs = 0

Where Hs = Static suction lift, the difference in level between the center line of pump and the water level in the sump in feet or metres.
Hd = Static Delivery head, the difference in level between the centre line of the pump and the highest point in the delivery line in feet or metres. In case of submersible pumps it is measured from water level in suction tank instead of centre line of the pump.
hfs = Friction losses in suction pipe line in feet or metres.
hfd = Friction losses in delivery pipe line in feet or metres.
HLf = Total friction losses due to pipe fittings in suction and delivery pipeline in feet or metres, e.g. strainer with foot valve, bends, valves, etc.
$\frac{Vd^2}{2g}$ = Velocity head of water in the delivery pipe in feet or metres.

Where Vd = Velocity of water in delivery pipe $= \frac{\text{Discharge}}{\text{Area of pipe}}$ in ft / sec or m/sec.

g = Acceleration due to gravity = 9.81 m/sec2
= 32.2 ft/sec2



To calculate the above parameters, the following details are required.

a. Required discharge in LPM or GPM.
b. Size and length of the suction & delivery pipes.
c. Size, type and number of pipe fittings on suction and delivery sides.
d. Variation in water level on suction side.

In working out the above, care has to be taken to see that constant units are used.

TABLE 1: Length of straight pipe in meters giving equivalent resistance of flow in valves and fittings.

Size of pipe in mm	90o Elbow (Std)	90o Medium Elbow	90o Long Elbow	45o Elbow	TEE	Return Bend	Gate Valve	Gate Valve	Angle Valve	Foot Valve or Check Valve (NRV)
13	0.46	0.43	0.34	0.24	1.04	1.16	0.107	4.90	2.56	1.01
20	0.61	0.55	0.43	0.31	1.37	1.53	0.143	4.70	3.66	1.53
25	0.82	0.70	0.52	0.40	1.77	1.86	0.18	8.24	4.57	2.04
40	1.31	1.10	0.85	0.61	2.74	3.05	0.29	13.40	6.71	3.05
50	1.67	1.40	1.07	0.76	3.35	3.96	0.37	17.40	8.54	3.96
63	1.98	1.65	1.28	0.92	4.26	4.57	0.42	20.10	10.00	5.18
76	2.47	2.00	1.55	1.15	5.18	5.49	0.52	25.90	12.00	6.10
100	3.35	2.77	2.13	1.53	6.71	7.31	0.70	33.50	17.70	8.23
125	4.26	3.66	2.78	1.86	8.24	9.45	0.88	42.60	21.30	10.00
150	4.87	4.26	3.35	2.35	10.80	11.50	1.07	47.70	25.30	12.20
200	6.40	5.48	4.26	3.05	13.10	14.90	1.37	67.10	33.50	16.20
250	7.62	6.71	5.18	3.96	17.10	19.00	1.74	88.50	42.60	20.40
300	9.75	7.92	6.10	4.57	20.10	23.00	2.04	100.50	51.80	24.40

Friction in long pipeline is to be calculated.

TABLE 2 : Frictional head lost in GI pipe

Q	Head lost in m per 100m				
Lpm (norminal dia mm)	40	50	65	80	100
40	1.15	0.38	0.10	0.03	0.01
60	2.57	0.84	0.22	0.08	0.03
80	4.58	1.50	0.40	0.14	0.05
100	7.16	2.36	0.63	0.22	0.07
120	10.30	3.38	0.91	0.32	0.11
150	16.10	5.30	1.42	0.50	0.17
180	23.20	7.60	2.05	0.72	0.24
240	41.25	13.52	3.64	1.29	0.42
300	64.45	21.12	5.69	2.01	0.66
360	-	30.41	8.19	2.90	0.95
400	-	37.55	10.11	3.58	1.17
500	-	-	15.80	5.59	1.83

Conversion Table

Discharge:	
1ImpGallon	4.546 ltrs.
1USGallon	3.785 ltrs.
1Cum.	1000 ltrs.
1Cuft.	28.32 ltrs.
Discharge Rate	
1m^3/h	16.67 l/min.
1m^3/s	60,000 l/min.
1l/s	60 l/min.
1Cuft/s	1699.2 l/min
1Imp.GPH	0.0757 l/min.
	0.00126 l/sec.
Head:	
1mtrs.	3.28 ft.
1ft	0.3048 m
1kg/cm^2	10 mtrs

Pressure:	
1 Atmosphere	1.033kg/cm^2
1 Atmosphere	14.7lb/in^2
1 Atmosphere	10.34mwc
1 lb/in^2	0.704mwc
1 lb/in2	2.31ft wc
1 lb/in2	51.6 mmofmercury.
1 cusec	1705lpm
	1Acreinch/hr
1 Cumec	20558.3lpm.
	1Acreft/hr.
Power :	
1HP(Si)	0746kW
	746W
1HP(Metric) 0.	736kW
	736W
1kW	1000 W
Weight:	
1kg.	1000 gm.
1kg.	2.2046 lb.
1lb.	0.4536 kg.

Technical Details for Submersible Motor, HP,kW, Starting, Standard cable connection, Maximum Amperes.

SUBMERSIBLE MOTOR 5" & 6"							
Sr. No.	HP	kW	Starting	415V & 380V		350V(LV Motor)	
				Max.Amp.	Cable Details (N0. x Mtr x Size in sq.mm.) CG specification	Max. Amp.	Cable Details (N0. x Mtr x Size in sq.mm.) CG specification
1	3.0	2.2	DOL	6.5	1 x 3 x 1.5	7.5	1x3x1.5
2	4.0	3.0	DOL	8.5	1 x 3 x 1.5	10.0	1x3x1.5
3	5.0	3.7	DOL	10.0	1 x 3 x 2.5	11.5	1x3x4.0
4	6.0	4.5	DOL	12.0	1 x 3 x 4.0	14.0	1x3x4.0
5	7.5	5.5	DOL	14.5	1 x 3 x 6.0	17.0	1x3x6.0
6	7.5	5.5	S/D	14.5	2 x 3 x 4.0	17.0	2x3x4.0
7	10.0	7.5	S/D	19.5	2 x 3 x 4.0	23.0	2x3x4.0
8	12.5	9.3	S/D	25.0	2 x 3 x 4.0	29.0	2x3x4.0
9	15.0	11.0	S/D	29.0	2 x 3 x 4.0	34.0	2x3x4.0
10	17.5	13.0	S/D	34.0	2 x 3 x 6.0	40.0	2x3x6.0
11	20.0	15.0	S/D	39.0	2 x 3 x 6.0	46.0	2x3x6.0
12	25.0	18.6	S/D	48.0	2 x 3 x 6.0	56.5	2x3x6.0
13	30.0	22.4	S/D	58.0	2 x 3 x 6.0	68.5	2x3x6.0

Submersible Pumpset Cable Selection Chart for 230V, 1PH, 50Hz

Length in Meters																					
HP	10	20	30	40	50	60	70	80	90	100	120	140	160	180	200	250	300	350	400	450	500
0.50	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0
1.00	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0
1.50	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0
2.00	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0
3.00	2.5	2.5	2.5	2.5	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0
4.00	2.5	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	35.0
5.00	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	10.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0

Cable Size Sq mm

For other Voltages cable size calculation to be done as per below:

$$\text{Calculated Length} = \frac{230}{\text{Actual Voltage}} \text{ X Actual Length}$$

Submersible Pump Cable Selection Chart for 415V, 3PH, 50Hz

Length in Meters																					
HP	10	20	30	40	50	60	70	80	90	100	120	140	160	180	200	250	300	350	400	450	500
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0
2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0
3.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0
4.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0
5.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0
6.0	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	10.0
7.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0
10.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0
12.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0
15.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0
17.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0
20.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0
25.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	25.0
30.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0
40.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	50.0	50.0
50.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0	70.0
60.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0	70.0	70.0
70.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	35.0	50.0	50.0	50.0	70.0	70.0	70.0
80.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	50.0	50.0	70.0	70.0	95.0	95.0

Cable Size Sq mm

For other Voltages cable size calculation to be done as per below:

$$\text{Calculated Length} = \frac{415}{\text{Actual Voltage}} \text{ X Actual Length}$$

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