



Accreditation by RvA  
MGMT.SYS  
RvA C 449

ISO 9001 : 2000



**VIRAJ  
PUMPS**



# **DEWATERING SUBMERSIBLE PUMP MJ SERIES**

*If there is liquid, There is "Viraj"*



# "VIRAJ" Dewatering Submersible Pump MJ Series

"VIRAJ" Make Dewatering Submersible Pump Design in single stage centrifugal closed coupled vertical ( mono-block type) construction. This series are available with variable design of impeller as per customer's application . And motor design in pressure resistance design with internal sealed , double mechanical shaft seal, as well as separate sealing Chamber. The Sealing Chamber is filled with oil . Motor sealing at the shaft double wear resistance mechanical shaft seal independent of direction on rotation entirely made of Tungsten or Silicon Carbide as close unit, Both seal cooled and lubricated by oil. The motor is equipped with two maintenance free ball bearing. The upper and lower bearing are filled with high quality grase.The motor is suitable for continuous operation ( S-1) under full load in immersed and completely emerged condition. This series design with jacketed type with top discharge and bottom suction .

SPECIFICATION	3.0 HP	5.0 HP	7.5 H.P.	10.0 H.P.	15.0 HP	20.0 HP	25.0 HP	30.0 HP	40.0 HP	50.0 HP	55.0 HP	65.0 HP
HP/Kw Range	3 /2.2	5/3.7	7.5/5.5	10.0/7.5	15.0/11.0	20.0/15.0	25.0/18.65	30.0/22.0	40.0/30.0	50.0/37.0	55.0/41.03	65.0/48.49
Max. Flow Range in M <sup>3</sup> /Hr.	70	110	130	170	225	260	320	350	380	410	470	500
Max. Shut off Head - Mtr.	21	27	30	35	40/55	42	43	45	47	70	70	90
Discharge Size in mm	50/65/75	65/75/100	65/75/100	75/100	100/150	100/150	100/150	150/200	150/200	150/200	150/200	150/200
Solid Handling Size max.	8-10 MM	10 MM	10 MM	10 MM	10-15 MM	10-15 MM	10-20 MM	10-20 MM	10-25 MM	10-25 MM	10-25 MM	10-25 MM
Type of Impeller	FREE FLOW	FREE-FLOW	FREE-FLOW	FREE-FLOW	FREE-FLOW	FREE-FLOW	FREE-FLOW	FREE-FLOW	FREE-FLOW	FREE-FLOW	FREE-FLOW	FREE-FLOW
Max. Temp. of Pumped Fluid	104°F/40° C	104°F/40° C	104°F/40° C	104°F/40° C	104°F/40° C	104°F/40° C	104°F/40° C	104°F/40° C	104°F/40° C	104°F/40° C	104°F/40° C	104°F/40° C
Max. Start/ Stop per Hour	15	15	15	15	15	15	15	15	15	15	15	15
Max. Submergence	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m
Pump weight with C.I.												
Constriction Approx. Kgs.	35	54	64	70	140	170	210	240	310	310	340	450

Motor/ Squirrel cage Motor	"F"Class & PVC WIND	"F"Class & PVC WIND	"F"Class & PVC WIND	"F"Class & PVC WIND	"F"Class & PVC WIND	"F"Class & PVC WIND	"F"Class & PVC WIND	"F"Class & PVC WIND	"F"Class & PVC WIND	"F"Class & PVC WIND	"F"Class & PVC WIND	"F"Class & PVC WIND
Type of Motor- Dry type	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Type of Rotor	Die cast	Die cast	Die cast	Die cast	Die cast	Die cast	Die cast	Die cast	Die cast	Die cast	Die cast	Die cast
RPM	2850/1440	2850/1440	2850/1440	2850/1440	2850/1440	2850/1440	2850	2850	2850	2850	2850	2850
Bearing	Ball/Angular	Ball/Angular	Ball/Angular	Ball/Angular	Ball/Angular	Ball/Angular	Ball/Angular	Ball/Angular	Ball/Angular	Ball/Angular	Ball/Angular	Ball/Angular
Duty	S-1	S-1	S-1	S-1	S-1	S-1	S-1	S-1	S-1	S-1	S-1	S-1
Power Supply - 415V ±6%	3 Ph- 50 Hz	3 Ph- 50 Hz	3 Ph- 50 Hz	3 Ph- 50 Hz	3 Ph- 50 Hz	3 Ph- 50 Hz	3 Ph- 50 Hz	3 Ph- 50 Hz	3 Ph- 50 Hz	3 Ph- 50 Hz	3 Ph- 50 Hz	3 Ph- 50 Hz
Thermal Protection *	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cable Length	10 mt	10 mt	10 mt	10 mt	10 mt	10 mt	10 mt	10 mt	10 mt	10 mt	10 mt	10 mt
Tandem Shaft Seal	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

\* CONTROLS REQUIRED ( OPTIONAL ITEM)

## MATERIALS OF CONSTRUCTION

Top Cover, Base, Brg. Hsg.	Cast Iron /Stainless Steel/Aluminum
Stator / Outer Jacket	Mild Steel / Stainless/ Aluminum
Impeller	Cast Iron /Stainless Steel/CFRM
Shaft	S.S.- 400 Series
Hard Ware	Stainless Steel
Mech. Seal	Tungsten Carbide/ Tungsten Carbide
Face Upper	Tungsten Carbide/ Tungsten Carbide
Face Lower	Carbon / Stainless Steel
Rubber Part	Nitrile Elstomers
Spring	Stainless Steel
Surface Treatment	Primer with Epoxy or Air Dry Enamel

## APPLICATION

- \* Construction Site
- \* Trenches
- \* Mines raw water
- \* Power Station
- \* Tunnels
- \* Flooded Cellar
- \* Rain Water
- \* Open sumps/ Ponds
- \* Shipyards & Ship
- \* Public Utility Works
- \* Fire Fighting
- \* Aquaculture
- \* Chemical/ Process Water
- \* Steel Plant
- \* Tank Cleaning
- \* Hotel, Hospital & Airport

## ACCESSORIES

- \* Control Panel , Float switch
- \* Hose pipe

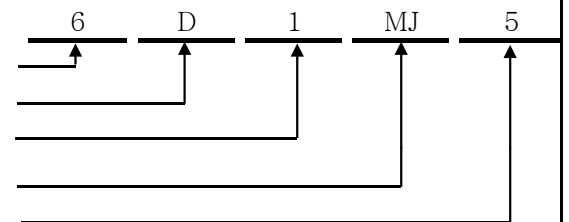
Additional accessories also available

## OPTIONAL DESIGN FEATURES

- \* Impeller Trim
- \* Additional Cable length
- \* Change in Material of construction
- \* Optional Hydraulic Design

## Designation of Product

DISCHARGE CONNECTION  
Multiply figure By 10(6 x10 = 60 (65 mm /2.5"))  
PRODUCT CODE (D= DEWATERING)  
RPM  
( 1= 2900 RPM & 2= 1440 RPM )  
SERIES IDENTIFICATION  
RATING OF PRODUCT in H.P



An ISO 9001 : 2000 Company



## Viraj Electricals

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