



Accreditation by RVA
MGMT.SYS
RvA C 449

ISO 9001 : 2000



VIRAJ
PUMPS



PORTABLE DRAINAGE SUBMERSIBLE PUMP MS/MV SERIES

If there is liquid, There is "Viraj"



"VIRAJ" Portable Drainage Submersible Pump MS/MV Series

"VIRAJ" Make Portable Drainage 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.

SPECIFICATION	0.75 HP	1.0 HP	1.5 HP	2.0 HP	3.0 HP	5.0 HP
HP/Kw Range	0.75/0.56	1.0/0.75	1.5/1.1	2.0/1.5	3.0/2.2	5.0/3.7
Max. Flow Range in M ³ /Hr.	30	35	45	50	60	84
Max. Shut off Head - Mtr.	12.5	14	15.5	20	22	26
Discharge Size in mm	50	50	50/65	50/65	50/65/75	65/75/100
Solid Handling Size max.	10-20mm	10-20mm	10-20mm	10-35mm	10-35mm	10-50mm
Type of Impeller	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
Max. Start/ Stop per Hour	15	15	15	15	15	15
Max. Submergence	10 m	10 m	10 m	10 m	10 m	10 m
Pump Weight with C.I. Construction Approx. Kgs.	22	24	25	27	35	55
Motor/ Squirrel cage Motor						
Type of Motor- Dry type	"F"Class Higher Grad	"F"Class Higher Grad	"F" Class Higher Grad	"F" Class Higher Grad	"F" Class Higher Grad	"F" Class Higher Grad
Type of Rotor	Aluminum Die cast	Aluminum Die cast	Aluminum Die cast	Aluminum Die cast	Aluminum Die cast	Aluminum Die cast
RPM	2850	2850	2850	2850	2850/1440	2850/1440
Bearing	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
Power Supply - 230V/ 415V ±6%	1/3 Ph- 50 Hz	1/3 Ph- 50 Hz	1/3 Ph- 50 Hz	1/3 Ph- 50 Hz	3 Ph- 50 Hz	3 Ph- 50 Hz
Thermal Protection *	Yes	Yes	Yes	Yes	Yes	Yes
Cable Length	10 mt	10 mt	10 mt	10 mt	10 mt	10 mt
Tandem Shaft Seal	Yes	Yes	Yes	Yes	Yes	Yes

* CONTROLS REQUIRED (OPTIONAL ITEM)

MATERIALS OF CONSTRUCTION

Top Cover, Base, Brg. Hsg.	Cast Iron /Stainless Steel/MILD STEEL
Stator	MILD STEEL/S.S.+M.S./S.S.
Impeller	Cast Iron /Stainless Steel/CF8M
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 Elastomers
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 FEETURES

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

Designation of Product

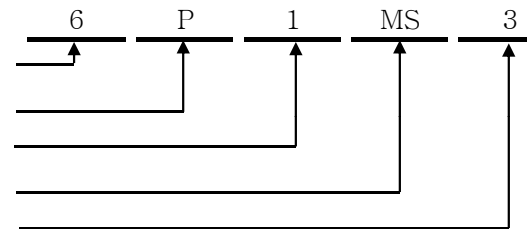
DISCHARGE CONNECTION
Multiply figure By 10(6 x10 = 60 (65 mm /2.5"))

PRODUCT CODE (P= PORTABLE)

RPM
(1= 2900 RPM /2- 1440)

SERIES IDENTIFICATION

RATING OF PRODUCT in H.P



An ISO 9001 : 2000 Company

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