



# CREATIVE ENGINEERS

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## HORIZONTAL POLYPROPYLENE PUMP "MHPP" SERIES

"MHPP" Pumps are single stage horizontal molded polypropylene corrosion resistant pumps. The pump has similar hydraulic design to any conventional centrifugal pump. Standard dimension process pumps with mechanical Seal/ Gland packing arrangement. Pump required at all of the chemical industries. These pumps give you unusual protection against corrosive & abrasive.



### OPERATING RANGE

- Capacity Up to :- 180 m<sup>3</sup>/hr,
- TDH H Up to :- 60 Mtrs,
- Pump Sizes – DN :- 25 mm to 150 mm,
- Speed – N :- 1440 / 2880 rpm at 50 Hz & 1750 / 3500 rpm at 60 Hz
- Temperature :- Up to 110°C

### APPLICATION

- Water treatment Plant
- Effluent Treatment
- Filter Press for dyes and chemicals
- Fertilizer Plants Thermal and atomic power plants
- Drugs & Pharmaceutical Industries
- Descaling of Tubes
- Scrubbing of corrosive gases like Cl<sub>2</sub>, Br<sub>2</sub>, I<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub>, F<sub>2</sub> Etc.
- Excellent for vacuum ejectors
- Transferring of concentrated HCL from road tankers
- Paper & Pulp industries
- Pickling in steel rolling mills
- **Caustic soda plants** :- Chlorinated Brine, Conc, HCL, Dilute H<sub>2</sub>SO<sub>4</sub> etc.
- **PHOSPHORIC Acid Plants** :- H<sub>3</sub>PO<sub>4</sub>, H<sub>2</sub>SO<sub>4</sub>, HF and their mixtures with or without solid (gypsum) up to 40% conc.
- **Gas Washing Plants** :- Scrubbed Liquids containing Cl<sub>2</sub>, Br<sub>2</sub>, F<sub>2</sub>, I<sub>2</sub>, SO<sub>2</sub>, SO<sub>3</sub>, CO<sub>2</sub>, NH<sub>3</sub>, Gases etc. with solids replace Hast Alloy.
- **Rayon Plants** :- Spin bath solution (H<sub>2</sub>SO<sub>4</sub>, ZNSO<sub>4</sub>, NaSO<sub>4</sub>, etc.)
- **Electro Palting**



### TEMPERATURE RESISTANCE

- PP 50° TO 80 ° C
- PPH 90 ° TO 100 ° C
- PVDF 100° TO 115°C



## POLY PROPYLENE MONOBLOCK PUMP



### SALIENT FEATURES:-

- The volute chamber is one piece, heavy, joint less design manufactured from Poly-Propylene a chemically inert thermoplastic by the use of an exclusive moulded process.
- All the wetted parts are in solid molded construction to with stand corrosion and erosion.
- The impellers are semi-open type hydraulically balanced by back vanes, used in our all pumps to suit both clear & polluted fluids.
- Distance piece of pumps are made from Poly-Propylene so no corrosion problem can pump leakage.
- The bearing bracket made from heavy-duty graded casting coated with anti corrosive paint.
- Reliable fixing of impeller on the shaft by direct thread.
- Centrifugal quiet, vibration free.
- The complete pump-rotating element can be withdrawn towards the motor end without disturbing the suction or delivery pipeline, due to back pull out design.
- The motor remain fixed to base plate.
- The pump rotating element can easily be dismantled into its component. After reassemble no time consuming Re-Alignment is necessary.
- You will find maximum dimensional inter-changeability in the design of "MALHAR" Pump.
- "MALHAR" Pumps requires minimum spare parts and saves you considerable maintenance costs in the long run.
- Pumps are Available in different mounting constructions like Horizontal Bare pump , Monoblock pump and Vertical pump
- Pumps are supply with PTFE Gland Packing or Mechanical seal fitted.
- Polypropylene parts are manufactured by solid injection molding process.
- Mechanical seal are provide of Ceramic / GFT Face or Silicon face with Teflon bellow as per application.
- Gland Packing are used of PTFE Impregnated or PTFE Graphite reinforced as per application Suitable for continuous service.
- Pump casing is provide with external metal ring for construction stability.
- All non PP parts lined with anti corrosive paint to protect corrosive atmosphere

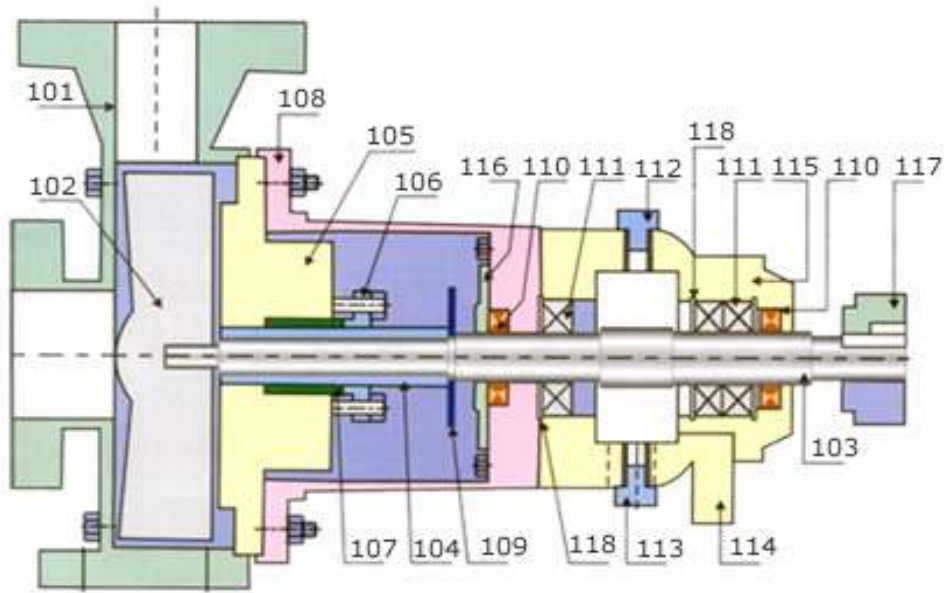
## MATERIAL OF CONSTRUCTION & SPECIFICATIONS:-

- **CASING :-** Top centerline discharge and Integrated flanges , Single piece , joint less casing formed out of Injection molded polypropylene / PVDF / UHMW.
- **IMPELLER :-** Hydraulically balanced and accurately matched to casing profile , the semi open type impeller with particle shroud and glass finished smooth flow passage ensure high efficiency low NPSH Performance Impeller made from compressor molded polypropylene / PVDF / UHMW.
- **SHAFT: -** The shaft is made from SS 316 protected by shaft sleeve of alloy -20 or alumina field Teflon or ceramic.
- **BEARING HOUSING: -** Made form heavy duty graded casting.
- **BEARING :-** SKF Ball Bearing
- **MECHANICAL SEAL: -** Rotary part of seal is made from glass field Teflon & stationary part of seal is made from high alumina field ceramic.
- **DISTANCE PIECE: -** Heavy duty one piece injection molded poly propylene.

### PERFORMANCE TABLE

MODEL	SUC X DEL	IMPELLER DIA	HP X RPM	CAPACITY IN LPM & HEAD IN METERS						
MHPP-100	25 X 25	100	1X2900	4	6	7	9	10	12	HEAD
				200	167	133	83	50	0	FLOW
MHPP-120	40X32	120	2X2900	5	7	11	13	15	16	HEAD
				317	250	167	133	67	0	FLOW
MHPP-130	50 X 40	148	3X2900	9	14	17	21	25	25	HEAD
				367	300	217	133	83	0	FLOW
MHPP-160R	40X40	142	3X2900	5	10	15	18	20	23	HEAD
				417	367	250	150	83	0	FLOW
MHPP-50	75X40	205	3X1440	5	10	11	12	13	14	HEAD
				500	417	333	167	83	0	FLOW
MHPP-160	75X40	157	5X2900	10	15	20	25	27	30	HEAD
				500	433	300	133	83	0	FLOW
MHPP-55	75X50	212	5X1440	6	10	12	14	15	10	HEAD
				750	417	500	250	83	0	FLOW
MHPP-170	75X50	160	7.5X2900	10	15	20	25	30	33	HEAD
				833	667	583	333	117	0	FLOW
MHPP-40	50X40	190	12.5X2900	25	30	35	40	45	50	HEAD
				667	584	500	415	167	0	FLOW
MHPP-55H	50 X 50	210	15 X 2900	30	35	45	50	55	60	HEAD
				1134	834	583	417	250	0	FLOW

# CROSS SECTION DRAWING OF P.P. HORIZONTAL PUMP



SR.	NAME OF PARTS	MATERIAL	QTY.	REMARK
118	CRICLIP	MILD STEEL	03	-----
117	LOVE JOY-COUPLING	CAST IRON	01	With key
116	BEARING COVER	PP	01	-----
115	BEARING HOUSING	CAST IRON	01	-----
114	OIL CHAMBER	CAST IRON	01	-----
113	DRAIN PLUG	MILD STEEL	01	-----
112	OIL FILLING PLUG	MILD STEEL	01	-----
111	BEARING	STD	03	SKF
110	OIL SEAL	NEOPRENE	02	-----
109	SPLASH GUARD	RUBBER	01	-----
108	BRACKET	PP/HDPE	01	-----
107	GLAND PACKING	PTFE	06	-----
107	MECHANICAL SEAL	GFT V/S CREAMIC	01	-----
106	GLAND PUSHER	SS 316	01	-----
105	STUFFING BOX	UHMWPE	01	-----
104	SLEEVE	ALLOY 20	01	Ceramic Coated
103	SHAFT	SS 316	01	-----
102	IMPELLER	UHMWPE	01	-----
101	CASING	PP/HDPE	01	-----