



Precision Engineering Company

**Advance Pump Technology for
100 % Leak - proof Service**



“PRECISION” is an **ISO 9001:2008** certified **Company**. It has pioneered the art of Manufacturing Rotary Equipments since 1988. The products manufactured comply with the International Quality Standards. Due to the Process industries growing concern for environment, Safety, GMP Standards, high ongoing cost of maintenance & handling of costly fluids with **ZERO LEAKAGE**, for this we at **“PRECISION”** have adopt modern techniques to **developed**. These pumps use Permanent Magnetic Coupling which creates neither slippage nor induction current during rotation.

Quality is the priority of PRECISION products which could be satisfied with all customers who research right product for the best solution. The advanced technology is the basis for everything. Innovation autonomously, we unceasingly applied new designing theory, new material and new technology into new products, so that we are able to better satisfy the requirements in liquid.



'PRECISION' SS - SERIES MAGNETICALLY COUPLED SEALLESS PUMPS :

These pumps are ideal for handling TOXIC, HAZARDOUS, INFLAMMABLE or CORROSIVE FLUIDS. These pumps use a pair of Magnetic Cups for transmitting the torque. The magnets are of best quality RARE EARTH or NEODIUM Magnets imported from GERMANY. The magnets can withstand temperatures up to 400°C on continuous running basis. PMP- SS-series Magnetic Pumps are available in SS 316, 316L, Alloy 20 & Hastelloy Materials of Construction.

SEALLESS :

Pump is hermetically sealed in a thick rugged metallic casing with compatible Material of Construction

DRASTICALLY SAVES MAINTENANCE COSTS :

Silicon Carbide wet bearings, extensively reduces wear & corrosion & provide extremely long life with interchangeable front & rear bushes. the 'PRECISION' pump design is versatile with minimum replaceable parts, thereby greatly reducing the cost of inventory as well as maintenance

Thanks to its Back Pull-Out design & Slip-Fit construction, **'PRECISION'** pumps are easy to Assemble & Disassemble on site without special tools or skill requirement. Ease of maintenance extensively curtails the relative cost of operation & usage of minimum manpower.

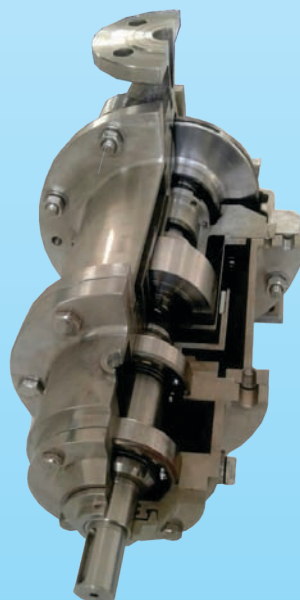
EXTREMELY SAFE PUMP DESIGN :

The pump has Explosion Proof design, Silicon Carbide bearings, the only frictional parts at wet end eliminates the possibility of jamming by rotational contact. Pump & Motor are separately positioned so that leakage from the pump, if any, never affects electrical equipment. Optional high pressure secondary containment is available to eliminate pump leakage due to corrosion of rear casing.

Pump & Rear Casing are completely drainable through a casing drain plug

CONSTRUCTION :

Volute Casing	}	SS 316,
Rear Casing		SS 316,
Impeller		SS 316
Shaft		Hastalloy
Gasket	:	PTFE / Grafoil
Shaft Sleeve	:	SiC
Bush Bearing	:	GRF-PTFE, Carbon, SiC
Front / Rear Thrust Washer	}	TC, SiC



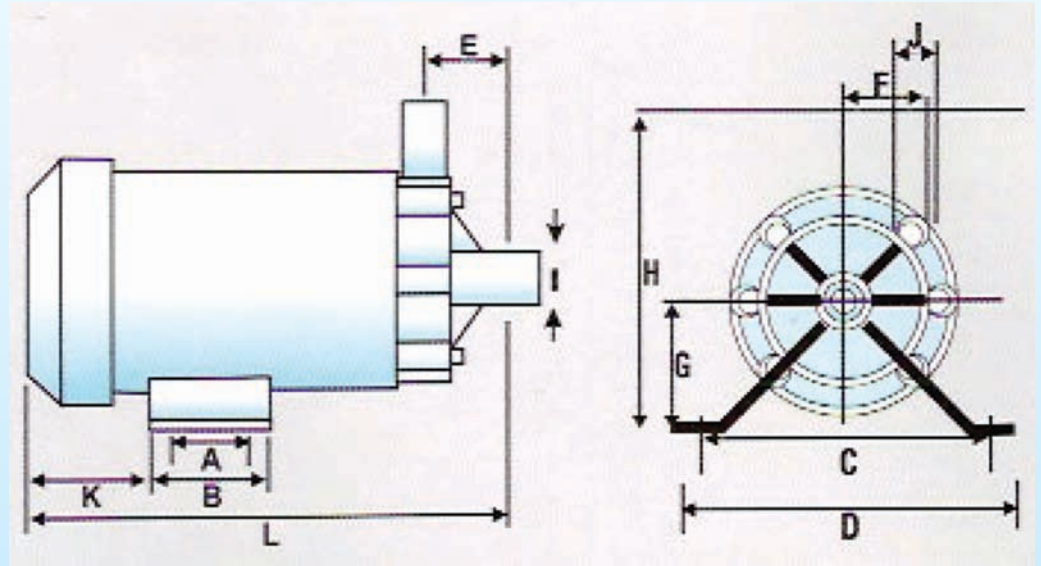
SPECIFICATION :

Flanges :	ASA ANSI DIN BS
Impeller :	Closed Semi Open
Max. Sp. Gr. :	2.0
Max. Vis :	300CPS
Secondary Containment	
Steam Jacket :	
Available, Optional	



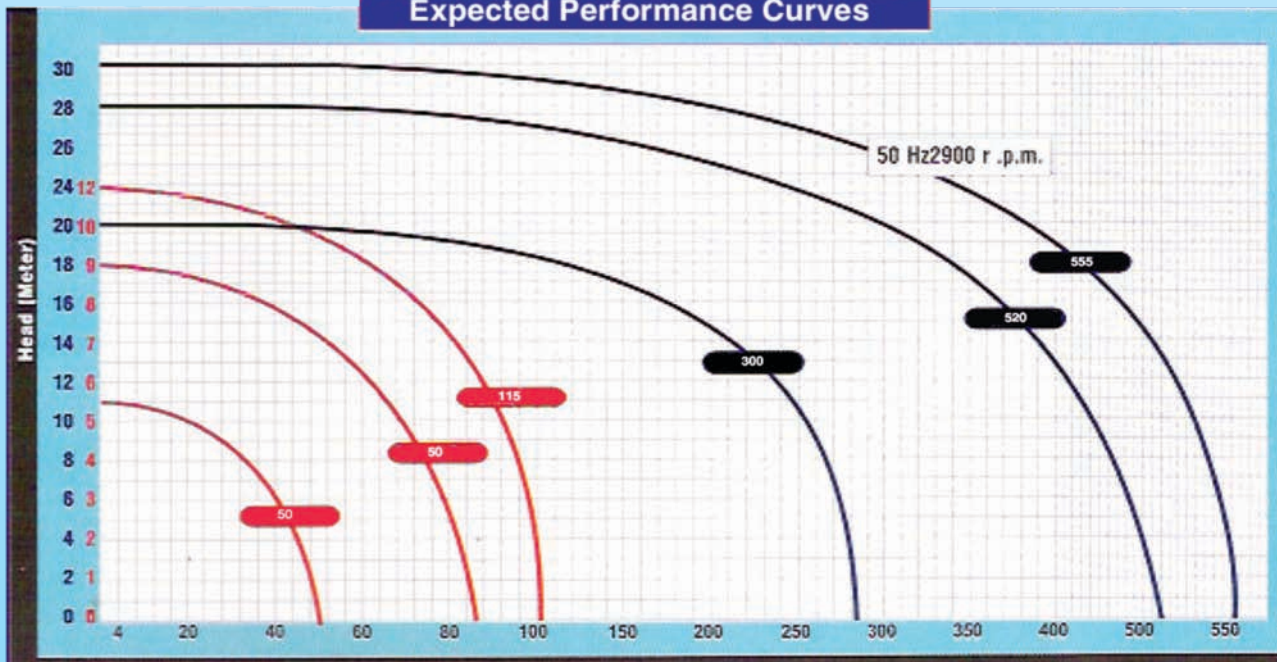
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Model No.	A	B	C	D	E	F	G	H	I	J	K	L
PMP – 50	40	60	96	116	58	32	58	135	¾" BSP	½" BSP	60	295
PMP – 85	55	65	115	142	85	35	80	200	1 ¼" BSP	1" BSP	115	335
PMP – 115	55	65	115	142	85	35	80	195	1 ¼" BSP	1" BSP	125	372
PMP - 150	100	125	130	75	90	50	103	210	1½" (Female)	1" Male	80	480
PMP – 300(I)	0	60	100	144	102	46	118	260	2" BSP	1 ½" BSP	185	515
PMP – 300(II)	0	60	100	144	102	46	118	260	2" BSP	1 ½" BSP	185	515
PMP – 555	205	245	203	250	126	50	100	275	2 ½" BSP	2" BSP	230	675

Expected Performance Curves





Pump Specifications :

PumpModel	Connection		Max Flow (Ltrs/Min)	Max Head	Std. Duty Point Q/H	Sp. Gr. Limit	Motor / Kw	Phase Φ
	Suction	Discharge						
PMP – 50	¾" BSP Female	½" BSP Male	54	4.5	30LPM/3 Mtr	1	65 Watt	1 Ø
PMP – 85	1 ¼" BSP Female	1" BSP Male	85	9.5	40 LPM/3 Mtr	1	195Watt	3 Ø
PMP – 115	1 ¼" BSP Female	1" BSP Male	100	11.5	50 LPM/7 Mtr	1.1	300 Watt	3 Ø
PMP - 150	1½" (Female)	1" Male	150	14.5	50 LPM/10 Mtr	1.1	0.75 KW	3 Ø
PMP – 300(Part I)	2" BSP Female	1 ½" BSP Male	280	20	2M3/hr.10 Mtr	1.3	1.1 KW	3 Ø
PMP – 300 (Part II)	2 " BSP Female	1 ½" BSP Male	320	22	2M3/hr.15 Mtr	1.3	1.5 KW	3 Ø
PMP – 555	2 ½" BSP Female	2" BSP Male	660	30	25M3/hr.20 Mtr	1.5	3.7 KW	3 Ø



PMP - 150



PMP - 115



PMP - 555



PMP - 300



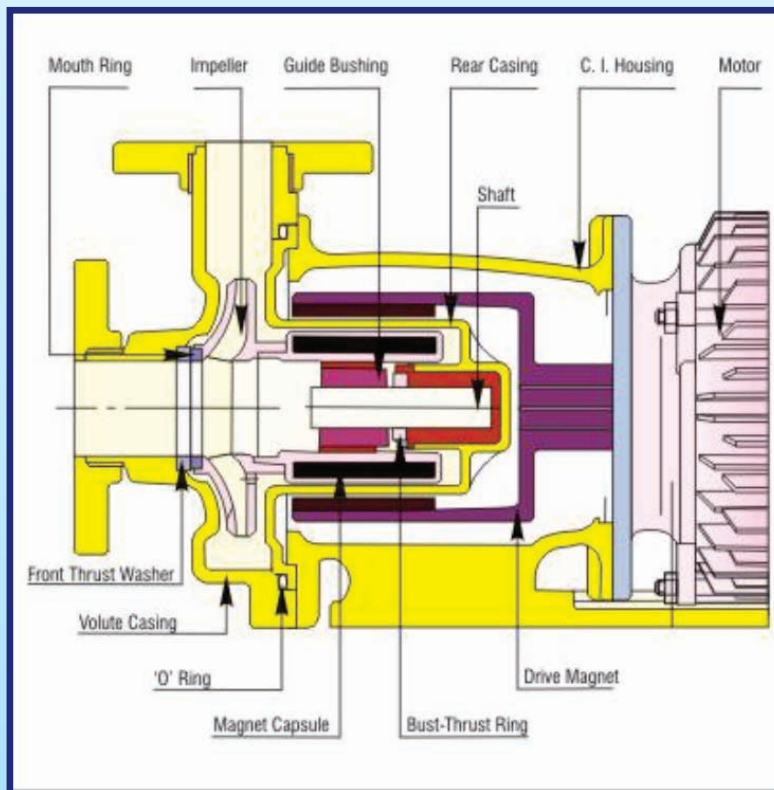
'PRECISION' NON – METALLIC MAGNETICALLY COUPLED SEALLESS PUMP

These pumps are manufactured for highly corrosive & hazardous acids & chemicals not having very high operating temperatures. They are available in GRFPP, HSAPP, PVDF & PTFE material of construction, PMP (Non Metallic Series) starts from as low as 10 Liters per Minute Capacity.



APPLICATIONS

Sealless features make these pumps perfect for following applications : Chemical, Pharmaceuticals, Electroplating, Meta Recovery Systems, Metal Finishing, Colour Photo Processing, X - Ray Film, Process / PCB Plants, Refrigeration & Chilling Plants, Water Treatment Plants, Galvanizing / Anodizing Plating Plants & many more.



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(An ISO 9001: 2008 certified company)

Veena Industrial Estate, Plot No. B /61, Unit 1 & 2, Opp. New Link Road, Behind Monginis Factory, Andheri (W), Mumbai – 400 053. Tel. : (022) 66989478 / 40136862 Fax : (022) 26736862

Email : precisionmagnetpump@gmail.com / magneticpumps@gmail.com / precisioneng@vsnl.net

Web : www.magneticpumps.in / www.magneticcoupledpump.co.in

Website : www.precisionmagnetpump.com