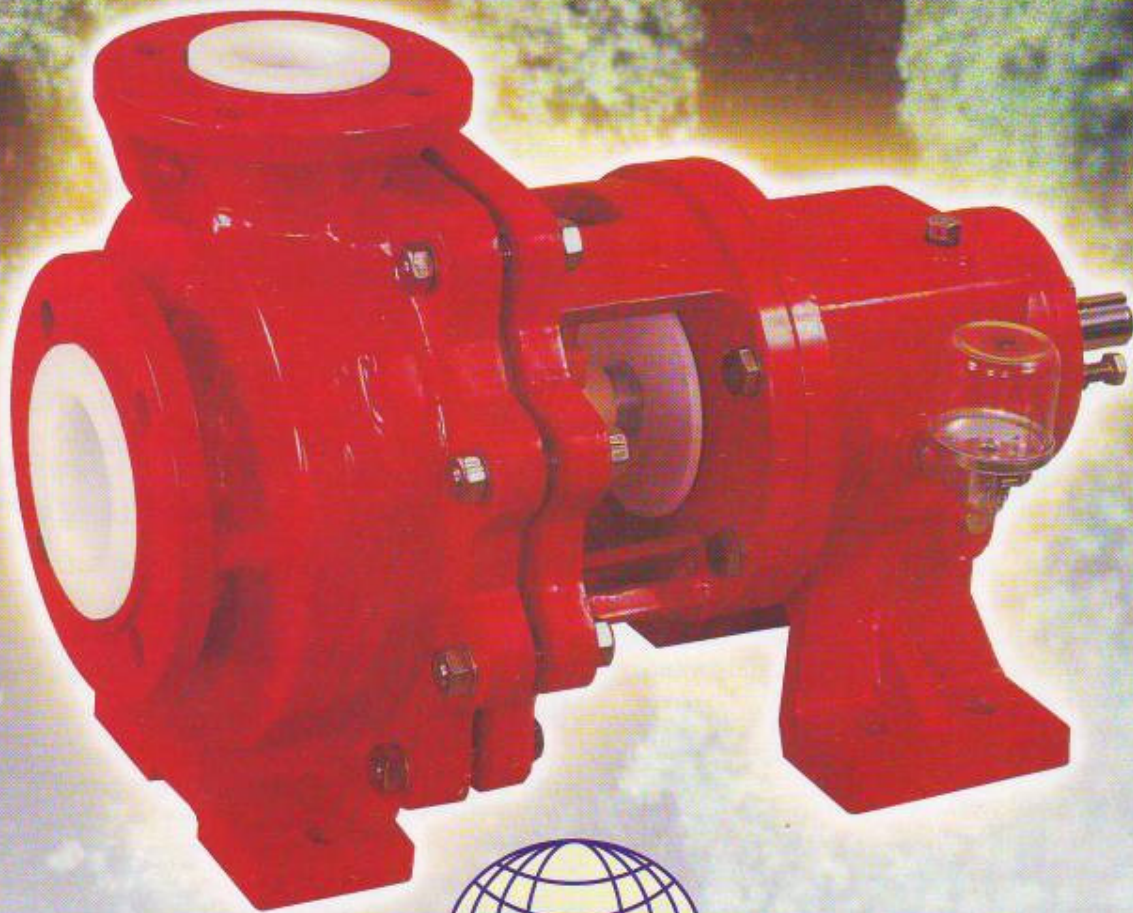


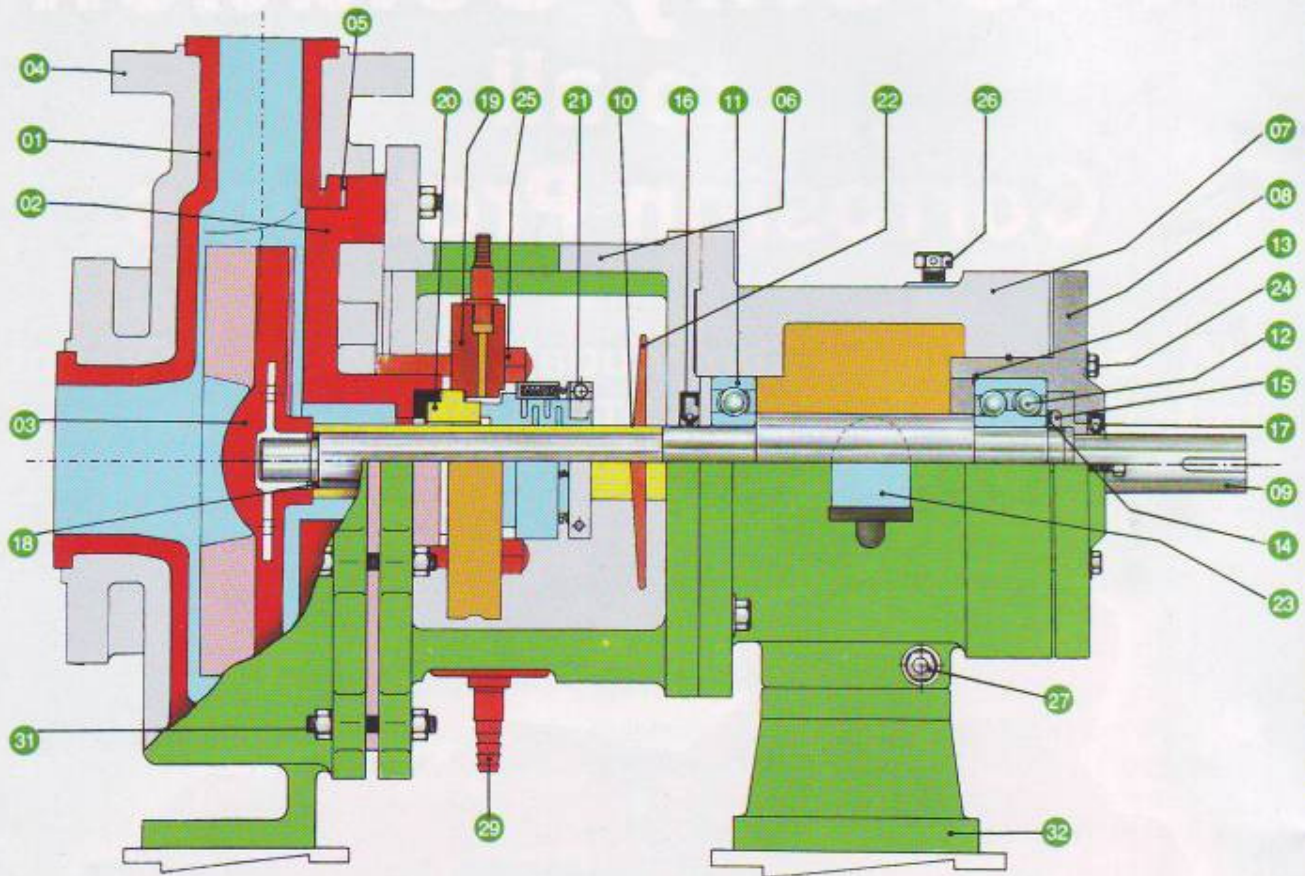
# The Only Solution to all Corrosion Problems

"HA" Series Lined Centrifugal Non-Metallic Pumps  
in M.O.C. :- PVDF, ETFE, TEFLON (FEP, PFA) etc.



**ORBIT PUMPS & SYSTEMS PVT. LTD.**

*Success through Customer Satisfaction*



## Part list

01	Casing lining .....	PVDF / FEP / PFA	17	Oil seal .....	Neoprene
02	Back plate .....	PVDF / FEP / PFA	18	'O' ring .....	Teflon
03	Impeller .....	PVDF / FEP / PFA	19	Locating flange.....	Hylem
04	Casing armour .....	Cast Steel	20	Stationary ring of mech. seal .....	*
05	Envelope gasket.....	PTFE	21	Rotary unit of mech. seal .....	*
06	Adaptor .....	Cast Iron	22	Deflector .....	Polypropylene
07	Bearing block.....	Cast Iron	23	Constant oil leveler.....	Aluminium
08	Telescopic bearing cover .....	Cast Iron	24	Hardwares.....	**
09	Bare shaft.....	S.S./En-24	25	Bolts for clamping mech.seal.....	**
10	Shaft sleeve .....	Ceramic	26	Oil priming plug .....	Steel
11	Ball bearing (in board).....	SKF	27	Oil drain plug .....	Steel
12	Ball bearing (out board) .....	ZKL	28	Coupling .....	***
13	Circlip.....	Spring steel	29	Drip tray .....	Polypropylene
14	Star washer .....	Spring steel	30	Base plate.....	M.S. fabricated
15	Locknut.....	Steel	31	Bolts for mounting .....	S.S.
16	Oil seal .....	Neoprene	32	Bearing block base .....	Cast Iron

\* Mechanical seal stationary ring-ceramic and rotary unit is external mounted Teflon bellow with GFT or replaceable Silicon Carbide/Carbon face.

\*\* All hardware are of SS

\*\*\* RATHI (love joy) make RRL flexible spacer type coupling.

### ● TECHNICAL FEATURES : -

- ❖ The hi-tech lining process involves high pressure moulding at high temperature to ensure uniform thickness of lining free from cavities, air pockets, cold flows, etc. A unique feature is the dove tail grooves provided on the metal casing and back plate. This ensures a firm grip between the metal and lining material. A dynamically balanced, solid moulded, semi open impeller with metallic insert gives mechanical strength and durability.



### ● CASING AND BACK PLATE AND IMPELLER: -

- ❖ Thick walled casing and back plate is made of PVDF, FEP, PFA Lining.
- ❖ Standard shell of cast iron, cast steel.
- ❖ Semi open impeller
- ❖ It is one piece, robust construction, dynamically balanced & is provided with back vanes to minimize axial thrust for enhanced bearing life.

### ● SHAFT SLEEVE : -

- ❖ Design is matched to the shaft seal mounting
- ❖ Material: - 99.7 % oxide ceramic  $Al_2O_3$  ( high alumina ceramic ), metal : such as hastalloy B/C, alloy 20 and titanium grade 7.

### ● SHAFT SEAL : -

- ❖ Single mechanical shaft seal of various systems & makes are available.
- ❖ Seals are Externally Mounted.

### ● BEARING PEDESTAL : -

- ❖ Particularly rigid shaft of high strength stainless steel / EN 24.
- ❖ Double raw ball bearing with extremely high load capacity.
- ❖ Long life oil lubricated bearings on both the sides.

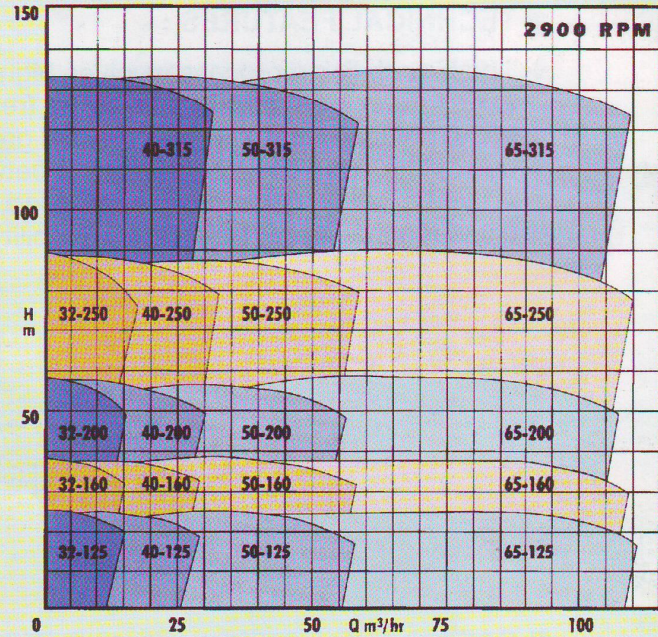
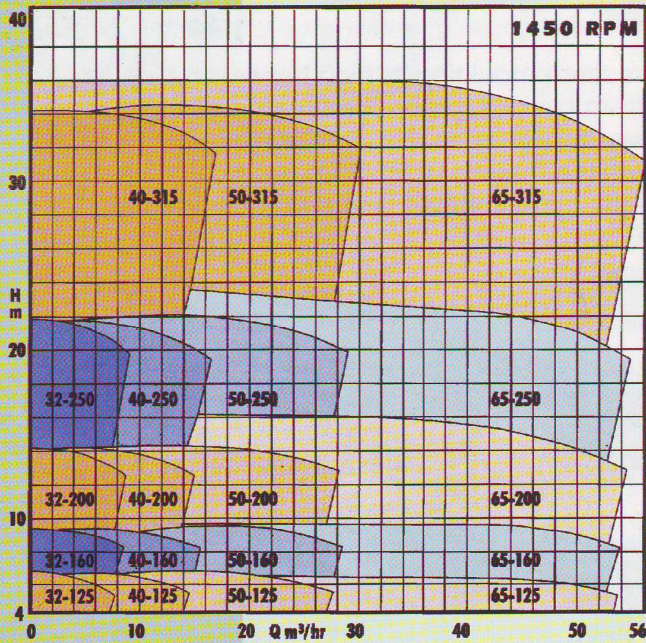
### ● GASKETS : -

- ❖ All sealing gaskets are made of PTFE.

### ● PERFORMANCE RANGE : -

- ❖ Flow rate up to  $250m^3/hr$
- ❖ Head up to 75 mts liquid column.
- ❖ Pumps size chosen in accordance with ISO / DIN standards.

## COMPOSITE PERFORMANCE CURVES



### APPLICATION & INDUSTRIES SERVED : -

- Phosphorus Acid Plants, Sulphuric Acid Plants, Fumes Scrubbing Systems, E.T.P. (Effluent Treatment Plant), Rayon Plant, Chemical Industry, Plating, Acid Picking, Caustic Soda Plants, & many more like Paper Mills, Cement Factory, Petrochemicals, Fertilizer Plants, Metal Refineries, Breweries, Drugs and Pharmaceuticals, Agrochemical, Steel Plants, etc.

Globalisation, indicating the survival only of quality, hi tech and competitive product, penetration of Orbit Pumps & Systems Pvt Ltd. in the core industrial sector was to incorporate best possible full proof solution to all pumping problems. To fulfill the growing demand, Orbit Pumps has a fully equipped manufacturing plant with comprehensive production, quality assurance and testing facilities.

It being service-oriented product is backed up with prompt and effective after sales service.

The goal is to provide zero defective product and to achieve success through customer satisfaction.

## ORBIT PUMPS & SYSTEMS PVT. LTD.

*Success through Customer Satisfaction*

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