

RESICAST...Since, 1982

Gala No 6 Gafoor Khan Estate, Opposite Best Depot L.B.S Marg, Kurla (West) MUMBAI - 400070

eMail: info@resicast.in; kfresi@rediffmail.com Contact: +91 7989768742, +91 7330665572

www.resicast.in

Corrosion Resistant Centrifugal Pump - Non Metallic

MOC: Silica Epoxy, Graphite

Product Overview

RESICAST pumps boast of silica epoxy (thermoset) construction using proprietary vacuum molding manufacturing process & curing system to provide a centrifugal pump in material of construction which is reasonably strong mechanically as well as corrosion resistant to many aggressive chemicals. With 40+ years of composite pump design & manufacturing experience we provide a quality pump line with best in class durability & efficiency.



Design Features

RESICAST type designed specifically for corrosive chemical service. Capacities up to 100 m3/hr. Total Head up to 50 meters. Temperatures up to 130 Deg C(depending up fluid & concentration)

Casing & Backplate

Heavy Silica Epoxy construction without any MS plate to support makes it suitable for corrosive duty



Impeller

Standard Semi Open & Close type impeller cast integral with shaft & hence chances of joints being corroded is eliminated. All parts of the impeller coming in contact with service fluid are silica EPOXY, damage due to reverse rotation is eliminated. Options for sleeves also available on customer request.

Shaft & Shaft Seal

Teflon bellow- Ceramic stationary mechanical seal is provided as standard. Plug -in shaft design allows for dismantling the whole pump in minimum time without disturbing the bearings.

Bearing Frame, Bearings and Couplings

Heavy bearings on the drive shaft housed in a rugged cast iron bearing frame provides solid support to ensure long bearing life. Liberally designed Love Joy coupling provided as standard.

RESICAST Advantage

Highly engineered composite pump, we have developed a special "Polymer Concrete" / "Ceramic" epoxy silica composite & are the one of the oldest & only manufacturers of such pumps in the country.

Unmatched mechanical strength & wear resistance in non metallic pumps ensures your pumps have longer life similar to metallic pumps. We use novolac thermoset resins used in demanding applications like ship propellers & aerospace structures.

Highest efficiency in non metallic pumps: Lower coefficient of thermal expansion of epoxy leading to smaller clearances & custom molding/machining (not mass production of standard casings) ensures that we deliver up to **20**% higher efficiency then most thermoplastic (PP, PVDF, PFA) pumps in the market. Upon replacement with Resicast pump you can recover your investment in 6-12 months.





Breakthrough design with fewer parts: Integrally molded single piece shaft impeller, no separate liner concern, no separate impeller lock nut, gasket, no need for a separate shaft sleeve. Total part count ½ of other pumps in the market

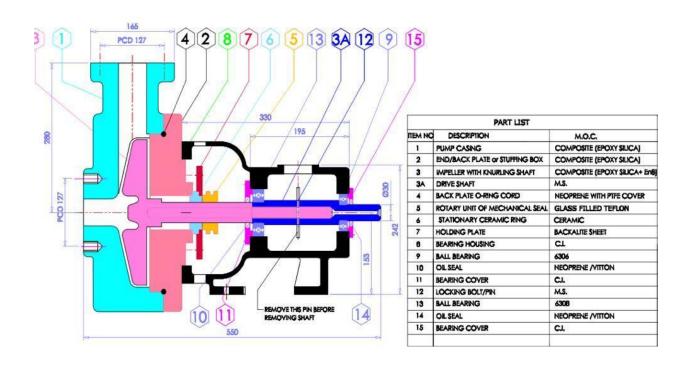
Easy maintenance coupled with modular design for component interchangeability ensure lower spares inventory & no need for skilled fitters

Resicast Pump Value Proposition - Power Savings viz a viz Thermoplastic Pumps (PP, PVDF etc)					
Head (mtr)	30	30	30	30	
Flow (m3/hr)	72	54	40	25	
Resicast (HP)	15	12.5	10	7.5	
Reputed PP,PVDF_Co. (HP)	20	15	12.5	10	
Operating Load	75%	75%	75%	75%	
Operating Hrs per day	20	20	20	20	
Operating Days Per Month	20	20	20	20	
Per Month Resicast Power Consumption (KW hr)	3358	2799	2239	1679	
Per Month Reputed PP,PVDF_Co.Power Consumption(KW hr)	4478	3358	2799	2239	
Per Month Resicast Power Consumption (@ 10 cents per unit)	26866	22388	17910	13433	
Per Month Reputed PP,PVDF_Co.Power Consump.(@ Rs 8 per unit)	35821	26866	22388	17910	
Savings with Resicast Pump (12 months) -Rs/Per Pump	Rs. 107463	Rs. 53731	Rs.53731	Rs. 53731	



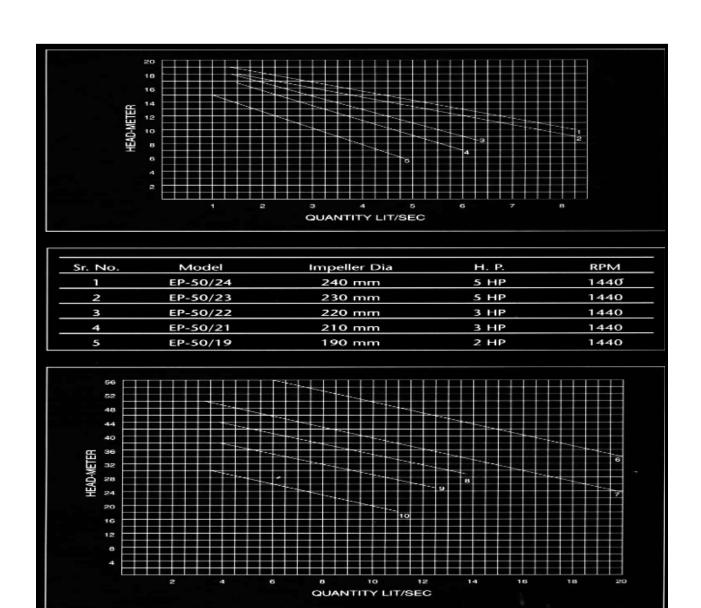
General Arrangement Drawing

(EP/50/XX & EP/65/XX)





Pump Performance Curves



Sr. No.	Model	Impeller Dia	H. P.	RPM
6	EP-75/190	190 mm	20 HP	2800
7	EP-75/170	1 <i>7</i> 0 mm	10 HP	2800
8	EP-65/160	160 mm	7.5 HP	2800
9	EP-50/150	150 mm	5 HP	2800
10	EP-45/150	135 mm	3 HP	2800



Chemical Compatibility

Acetaldehyde	Ferrous Chloride		
Acetone	Ferrous Sulfate		
Acetic Acid	Hexene		
Ethyl, Methyl, Amyl and	Hydrobromic Acid		
Benzyl Alcohols	Hydrochloric Acid - 33%		
Aluminium Chloride	Hydrofluoric Acid		
Aluminium Fluoride	Hydrogen Peroxide		
Alum	• MCB		
Barium Carbonate	Nitric Acid		
Barium Chloride	(10% solution)		
Barium Sulfide	Phosphoric Acid		
Benzaldehyde	Potassium Carbonate		
Benzene	Potassium Chloride		
Bezoic Acid	Sodium Bicarbonate		
Butyric Acid	Sodium Bisulfate		
Calcium Carbonate	Sodium Carbonate		
Calcium Chlorate	Sodium Hydroxide (20%)		
Calcium Hydrochlorite	Sodium Hypochloride		
Carbon Tetra Chloride	Spent Acid		
Citric Acids	Stearic Acid		
Fatty Acids	• Sulfuric Acid 3/4		
Ferric Chloride	(10% - 98%)		

^{*} Please check with us for compatibility of your service fluid, compatibility can change based on temperature & fluid concentration