non metallic pumps
Decades of experience in development & manufacturing of injection Moulded Polypropylene Corrosion Resistant Pumps.

Design philosophy is to design pumps that are simple, rugged & reliable using for most appropriate materials.

Polypropylene, a vinyl polymer has low density is fairly rigid & has temperature resistance up to 80º C. Its outstanding characteristic is resistance to strong acids coupled with good mechanical properties, light weight & excellent resistance to corrosion make it an obvious choice for ANTICO pumps.

ETP SERIES

ETP 50

Applications:

ETP Series Pumps are polypropylene self priming pumps hence are best suited for pumping effluent in chemical process industries.

The range offers several advantages,

1. a normal centrifugal pump with a priming bowl and a built-in NRV

2. compact and light weight as compared to heavy vertical submersible pumps

3. will lift from a vertical height of 03 m.
1 Large Priming Chamber
Injection moulded corrosion resistant polypropylene
self-priming chamber retains liquid for priming and enables pump to lift up to 3 mts.

2 Check Valve
Prevents back - flow siphoning and allows for faster restart.

3 Impeller
Non-clog, semi-open ‘S’ type impeller suitable for handling slurry, sludge and solids up to 10mm.

4 Volute
Self-priming and self cleaning double volute primes, during pumping keeps pump free from settled solids. Made from glass filled polypropylene for longer life.

5 Wear Plate
Moulded glass filled polypropylene, minimises effects of abrasion

6 Back Plate
Sturdy ribbed backplate suitable for Mechanical Seal or Gland Packing

7 Bearing Frame
Heavy Cast Iron construction, precision machined for no shaft deflection of more than 0.05mm contains large oil reservoir.

8 Ball Bearings
Inboard bearing is pressed on shaft and free to float axially in frame - carries radial load only. Outboard double row ball bearing is shouldered and locked on shaft with lock-nut and washer, and in bearing housing to carry radial and any unbalanced thrust load. All bearing fits are precision bored.

9 Shaft
Designed for maximum 0.05 mm deflection at mechanical seal. Available in EN / Stainless Steel.

10 Sleeve
Shaft Sleeve of different material depending on the compatibility of the liquid to be handled.

11 Mechanical Seal / Gland Packing
Pumps are fitted with either mechanical seal or gland packing depending on the service conditions.

12 Clamping Bands
Powder coated steel clamps holds the housing halves securely. Releases quickly for easy cleaning and maintenance of pump internals.

13 Suction Strainer
Injection moulded corrosion resistant polypropylene Strainer to protect from foreign ingestion.
During the priming cycle, air enters the pump and mixes with water at the impeller. Water and air are discharged together by centrifugal action of the impeller into the water reservoir. The air naturally tends to rise, while the water tends to sink.

Air-free water, now heavier than air-laden water, flows by gravity back down into the impeller chamber, ready to mix with more air coming in the suction line. Once all air has been evacuated and a vacuum created in the suction line, atmospheric pressure forces water up into the suction line towards the impeller, and pumping begins.

This type of pump differs from a standard centrifugal pump in that it has a water reservoir built into the unit which enables it to rid pump and suction line of air by recirculating water within the pump on priming cycle. The 'self-priming' capability of the pump comes from the pump's ability to retain water after the very first prime.
Gland packing pumps come with pure PTFE or PTFE Impregnated Blue Asbestos against specific customer requirements.

Internal Mechanical Seal developed by Antico, has rotary unit fitted on the impeller and stationary unit housed in a rubber bellow. Polypropylene bellow holder ensures proper seal face loading. Used extensively in metal finishing industries.

PTFE bellows provide universal chemical resistance for a wide range of services & non-wetted metal parts eliminate the need for expensive metallurgies. TB/TBR seal is inherently hydraulically balanced to ensure proper face loading. Installs easily on outside of stuffing box; eliminates the use of elastomers.

Metallic seal is a multi spring outside mounted balanced seal with 'O' Ring as secondary seal. Excellent for crystalline media since clogging of rotary unit does not occur as is the case in PTFE bellows seal. Wide range of seal face materials available for various applications.

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Performance Range Chart
NOTE:

1) ALL DIMENSIONS IN mm
2) DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE
3) FLANGES AS PER ANSI B 16.5 # 150 FF