

# IGE CHEMICAL PROCESS PUMPS (INVESTMENT CASTING)

ANSI B73.1 M Std. pumps,  
Air cooled Thermic fluid Pump,  
ISO 2858-5199 Standard Close impeller Pumps, Self-  
priming pump for solvents

## AVAILABLE IN:

WCB (CAST STEEL), CF8M (S.S. 316), CF3M (S.S. 316L), CN7M  
(ALLOY-20), CD4MCu, HASTALLOY-B & C



INDUSTRYGENIX  
ENGINEERING

## ANSI B73.1 M Std. pumps



Our Pumps follow the ANSI Pump Dimensions as well as the ASA 150 Flange Dimensions with raised faces. We offers these pumps up to 1200cu.m/hr(6000GPM) and up to 150mts(500ft) of Differential Head.

### Key features of our pumps:

- Back Pull out design.
- These pumps basically design for process services and suited for corrosive liquids containing solids and stringy materials.
- Semi open impeller which can handle 4-5% suspended particles.
- Variety of mechanical seal fitment option as per application requirement.
- The back pull out design helps the user to dismantle the pump without dismantling the Pump Casing from the Suction and Discharge piping. This helps in ease of Maintenance and the regular checks for wear and tear of Pump parts can be easily done.
- ANSI Pumps can take a designed pressure up to 20kg/sq.cm. and so can give a highly extended life of the pump in various chemical process applications.



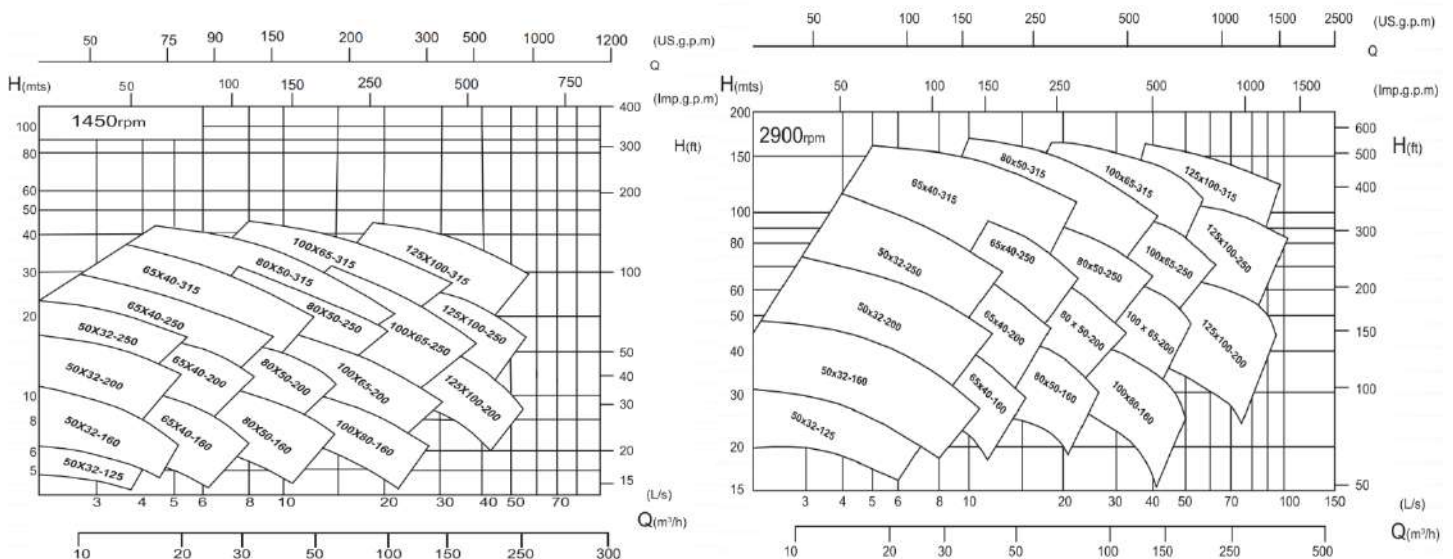
## Air cooled Thermic fluid Pump



Max capacity – 350 m<sup>3</sup>/hr  
 Max Head – 120 M  
 Temperature – 320-350 Degree C  
 Working pressure – 2550 KPa

### Technical Features of Thermic Fluid Pumps:

- Pump Dimensions comply to ISO 2858/5199 with Flange STD ASA 150.
- Available in Closed Impeller Construction for Higher Efficiencies.
- Wide Range of Models and MOCs available which covering the Maximum Duty Conditions.
- Maximum Temperature handling up to 350 C.
- Heat Barrier plate for better heat dissipation.
- Cooling Fins (Air-Cooled) are provided to eliminate use of External Cooling Systems.
- Oil Lubricated Bearing Housing Only, with Ball Bearings provided on the Product Side as well as the Drive Side to ensure Ease of Maintenance & Better Service Life.



## **ISO 2858-5199 Standard Pumps (CLOSE IMPELLER CENTRIFUGAL PROCESS PUMP)**

Max. Capacity - 1000 m<sup>3</sup>/hr

Max Head - 150 M

Temperature - 210 to 260 Degree C

Working Pressure - 2550 kPa

- We offer ISO 2858/5199 Pumps in various Materials of Construction with Closed Impellers as the construction of the pump for all Clear liquid Handling in the Chemical Industries.
- Pumps with the above standard are all Grease Lubricated to have a much better life for the Bearings hence reducing the sound and vibrations in the Pumps.
- These pumps can fit various kinds of mechanical seals.

## **FULLY OPEN TYPE IMPELLER WITH VERTICAL IN LINE SELF PRIMING PUMPS FOR SOLVENT APPLICATION**



- Fully open impeller for clear fluid transfer
- Self-priming 3-5 M negative suction can be handled.
- Low NPSH required
- Best suited for lifting various clear solvents from tank farms to charging vessels or simple drum unloading
- Low speed application (1450 RPM )
- High head low capacity pumps can lift Solvent fluid without cavitation.
- Standard carbon vs ceramic faces of Mechanical seals are used.
- Mechanical seal is self-cooled by fluid inside the pump
- no additional cooling arrangement required.
- Suitable only for clear solvent fluids
- Trolley is for mobile operations.
- Requires lesser space for installation as motor is mounted over the pump.

## OUR PUMPS CAN BE USED FOR BELOW GENERAL APPLICATIONS:

**CHEMICALS** - Sulphuric acid, Brine, Nitric acid, Sodium Hydroxide, Chloro sulphuric acid, Maleic acid, Hydrochloric acid, Ethanol, Citric acid, Acetic acid, Phosphoric acid, Sodium chloride, Ammonium chloride, Oleum, Vinyl Acetate

**PETROCHEMICALS** - Butadiene, Benzene, Toluene, Ammonia, Methanol, Vinyl chloride, Ethylene glycol, Maleic anhydride, Acrylonitrile, Urea, Formaldehyde, Phenol, Styrene, Ethylene oxide, Xylene

**PULP & PAPERS** - Shower water, White water, Chlorine dioxide, Sodium Hypochlorite, Fresh liquor, Black Liquor, Green Liquor, Dregs washer, white liquor

**BREWING** - Sparge water, Hot/cold wort, Chilled water, Beer, reclaim water, MASH, blow black beer, Spent grain liquor, Alcohol transfer, Yeast brink, Sulphuric acid, Caustic

**PRIMARY METAL** - Copper cyanide, Sodium Cyanide, Chromic acid, Sodium Sulphate, Ferric chloride, Ferrous Sulphate, Copper sulphate, Ammonia sulphate, Silver Cyanide

**GENERAL** - Condensate, Deionized water, Shower water, Hot oil, Wine, Sugar cane juice, River water, Pond water, Cooling tower water

## All pumps are Available in below MOCs

| Material      | ASTM Casting Grade.    |
|---------------|------------------------|
| Cast Steel    | WCB                    |
| SS-304        | CF8                    |
| SS-316        | CF8M                   |
| SS-316L       | CF3M                   |
| CD4MCu        | CD4MCu                 |
| Alloy - 20    | CN7M                   |
| Carpenter 20  | CK-20                  |
| Duplex SS     | Grade 4A,5A,6A         |
| Hastelloy B   | N12MV                  |
| Hastelloy C   | CW12MW                 |
| Nickel (100%) | CZ-100                 |
| MONEL         | M-35                   |
| Ni-Hard       | Ni-Hard(Ni-Resistance) |