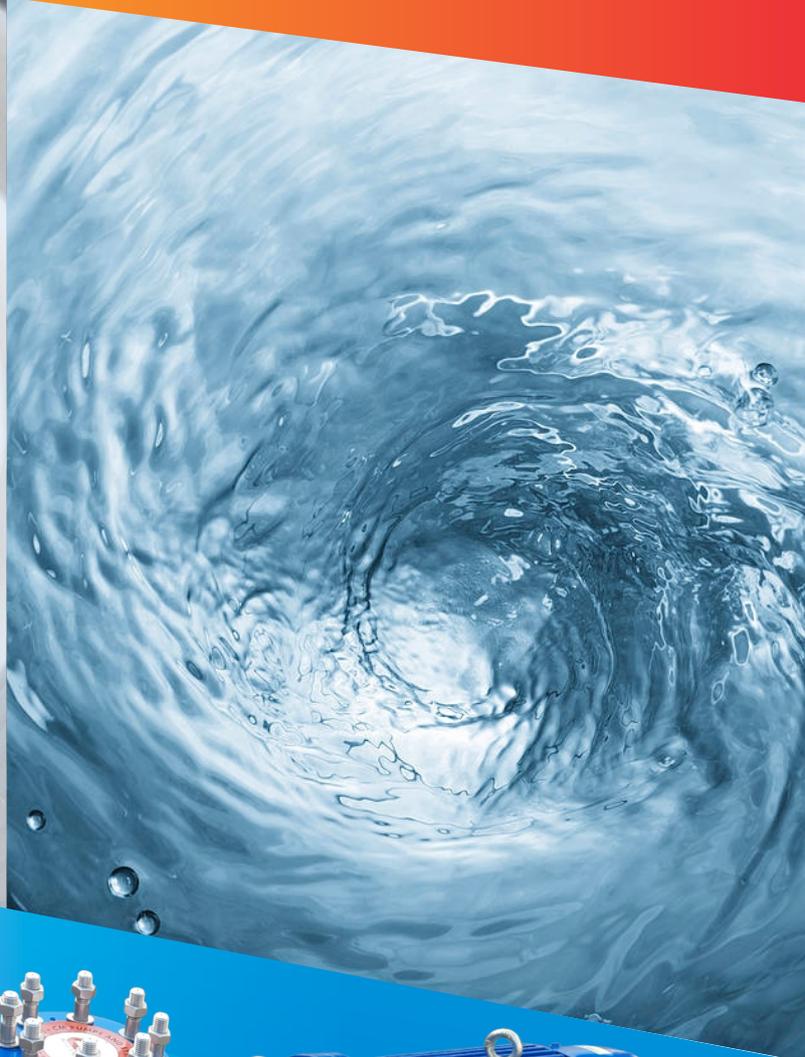
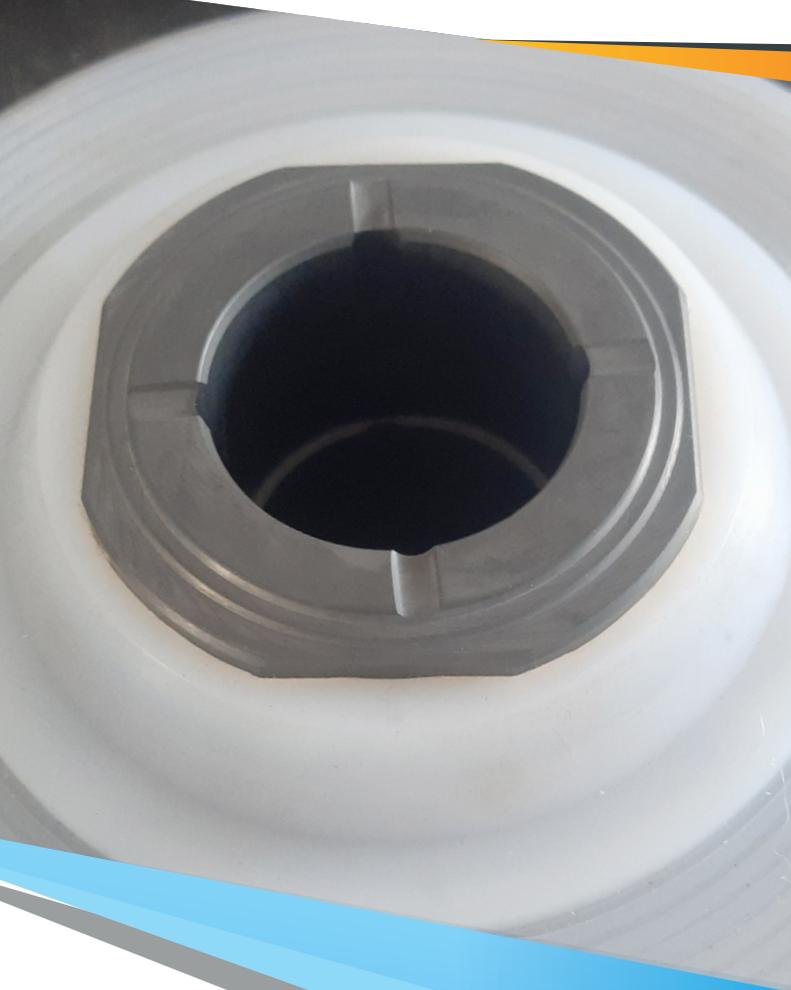


According to DIN EN 22858, ISO 2858



PFA Lined Magnetic Drive Pump



Our Company

CM Pump is highly innovative Indian Company since 2016 we have specialized in developing and manufacturing premium quality high-tech product and providing services for international customers with the most rigorous requirements.

We produce reliable and innovative magnetic drive pumps for the chemical, pharmaceutical, petrochemical, biotechnology, food and beverage industries. CM Pump is represented in over ___ countries through its network and offers first -class customer services. This proximity guarantees customers worldwide and efficient local service.

Reflecting our deep commitment to energy efficient products and services, we deliver environmentally friendly solutions that always go hand in hand with maximum safety and economy. As a pioneer in this area, we advise and assist customers with a wide range of needs – throughout the value chain.

CM Pump operates a quality management system certified to ISO 9001.

Energy efficiency in industry

Nowadays, industry is facing increasing demands to improve sustainability and energy efficiency. Pumps are considered to play a key role because they offer vast potential to save energy and costs. CM Pump took action and has become a pioneer in energy – saving pumping systems.

In recent years, we have continuously enhanced the hydraulic performance of numerous pump systems, increasing their efficiency by up to 30 per cent. At the same time, we have steadily improved pump safety, a mission we have vigorously pursued ever since our company was established in 2016.

We are wholeheartedly committed to promoting sustainable manufacturing in industry around the world. Our customers benefit from a comprehensive range of solutions that reduce costs and CO₂ emissions over the long term. Cleaner pumps, cleaner planet; we firmly believe that sustainable research, thinking and action always pay off for everyone.

PFA Lined magnetic Drive Centrifugal Pumps with their Sealless design, the CZP and CZBP magnetic drive pumps are ideal to meet the stringent requirements of chemical processing and a multitude of other industries. These highly advanced and extremely energy efficient pumps are built to handle a huge variety of corrosive fluids reliably and absolutely safely, especially even in high temperature applications.

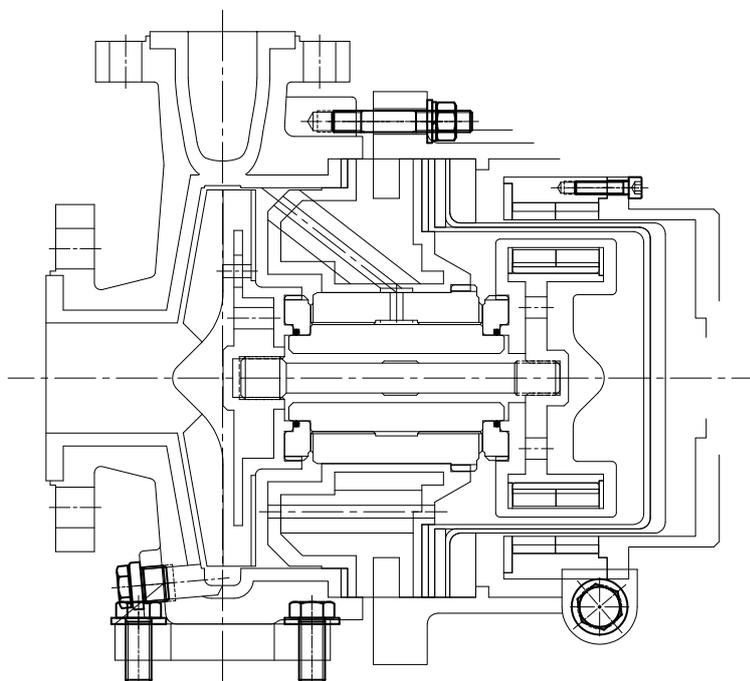
The Pump Casing has a thick, heavy -duty, corrosive and permeation – resistant PFA lining positively, mechanically locked into the metal armour, ensuring, vacuum resistance. This armour absorbs all mechanical stresses that can result from system pressure or piping nozzle loads.

Made of pure SSIC (sintered silicone carbide) in a robust design engineered for ceramics, the bearing assembly provides maximum reliability of pump operation. Plain and thrust bearings are secured with polygonal form- fit, self -centring, anti-rotation devices. Even at high temperatures, the PFA lined metal plain bearing carrier maintains a constant clearance between the impeller and casing.

The CZP and CZBP pumps come with either an open impeller for low NPSH or a closed impeller for high efficiencies. Featuring a metal core for increased mechanical strength their plastic impellers are firmly secured to prevent loosening in case of reverse pump rotation.

Both pumps are constructed with just a few, robust components using an intelligent modular system that facilitates assembly and minimises the costs of spare parts, maintenance and servicing.





Description

- Single Stage, Horizontal Centrifugal Pump.
- Hydraulic Performance and Dimensions according to DIN EN ISO 2858
- Technical design based on DIN EN ISO 15783
- Permanent Magnet Drive
- Maintenance Free
- Separation of Liquid Chamber to Atmosphere by Means of Isolation Shell
- Slipless Power Transfer
- Materials: Steel, Stainless Steel, Nickel Based Materials
- Close Coupled Block Design
- Hydraulically balanced impeller for minimum bearing loads
- Product-Lubricated Journal Bearings; made of Silicon Carbide (SSiC) or Customized Materials

CASING

Materials

- WCB / vacuum-tight PFA lining

Pressure rating

- PN 16

Connection flanges

- Drilled to ANSI/ASME B 16.5

Gasket materials

- PTFE

O-ring materials

- FEP/FKM
- Kalrez®/Chemraz®

BEARING ASSEMBLY

Materials

- SSiC (sintered silicon carbide)
- SSiC with diamond-like coating (ADLC)

CONTAINMENT SHELL (CAN)

Materials

- Carbon fiber reinforced + PTFE



Applications

Versatile – Complex – Special

CM's PFA lined magnetic drive pumps are engineered to meet the most stringent quality standards and ensure reliability and utmost safety in production operations. Suitable for many different fluids in a variety of industries and processes, they are capable of handling low, medium and high flow volumes. PFA lined magnetic drive pumps from CM offer tremendous advantages, especially in pumping sensitive or hazardous substances.

Industries

- Chemical processing :- basic and fine chemicals (agrochemicals, specialty chemicals)
- Pharmaceuticals
- Biotechnology processing

Processes

- CM's PFA lined magnetic drive pumps are designed for a wide range of processes, including:-
- Chlor-alkali electrolysis
- Sulphuric acid recycling
- Tank unloading

Fluids

- CM's PFA lined magnetic drive pumps can handle hot and/or highly concentrated acids, alkalis (basis), solvents and diffusing fluids.

For example:-

- Bromine
- Chlorine
- Nitric acid
- Phosgene
- Potassium hydroxide solution
- Sodium hydroxide solution
- Sulphuric acid

Our sales staff will be glad to give you personalized advice tailored to your specific needs, industry, processes and fluids.

Customer service

We offer the highest quality, many years of experience and first-class advice from a single source. Our bespoke pump systems meet a wide range of different requirements.

CM's customers benefit from a full service offering: the fastest availability of genuine spare parts, a complete set of technical documentation, competent and efficient customer support, and a dynamic and flexible repair service. All these services ensure that your pumps will operate faultlessly. Thanks to a network in over 70 countries, we advise and serve our customers directly on site.

Energy efficiency consulting

As a trend scout specialized in energy efficiency, CM can deliver a wide spectrum of services relating to pumps and motors: comprehensive advice, in-depth system analysis, meticulous planning and design. Our goal is to actively help our customers optimize the energy consumption of their pumping systems and thereby cut costs over the long term.

Backed by our many years of broad experience, we today advise and assist customers in both the private and public sectors. These include owners and operators of fluid processing plants in the chemical, pharmaceutical and diverse other industries.

CMP

PFA Lined Magnetic Drive Chemical Process Pump

Designed for operating at up to +200°C, the CMP pump is built for safety in handling corrosive fluids in high temperature applications. Its connection dimensions and performance data conform to DIN EN ISO 2858, making the CMP easy to retrofit into any installation to replace old pumps

Technical data

| | |
|--------------------------|---|
| Capacities (min./max.) | 0.5 to 200 m ³ /h? |
| Heads (min./max.) | 3 to 90m |
| Temperatures (min./max.) | -20 to +200°C |
| Kinematic viscosities | 0.5 to 350 mm ² /s |
| Solids handling | up to 5% solids concentration, depending on the pumped fluid* |

Directives

EC ATEX Directive : 2014 /34/EU

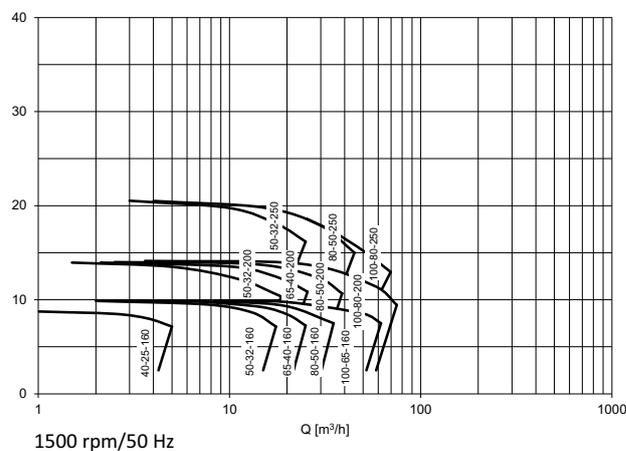
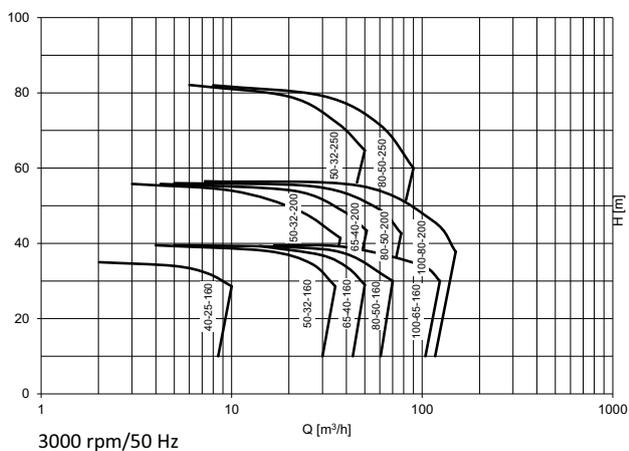


Standards

DIN EN ISO 2858

DIN EN ISO 15783

Performance Curves



* All the above Curve is estimated for exact curve contact CM Pump

Worldwide Co-operation Success Together



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