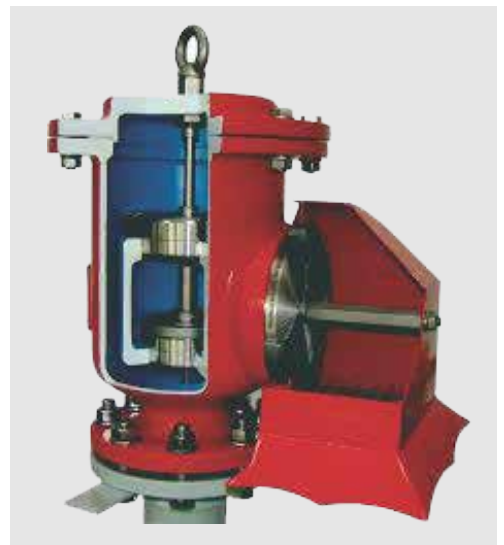


Eliminate unscheduled
downtime & maintenance..

**Using right equipments
for the perfect flow.**



FL **WRIGHT**





FLOWSERVE CPX SINGLE STAGE CHEMICAL PROCESS PUMPS

“FLOWSERVE” Pumps are available with Investment cast twisted vane impeller of duplex SS (CD4MCu) for better erosion capability.

Advanced 45 degree conical shaped seal chamber with integral vortex flow modifiers controls vapour build-up and ensures adequate flow conditions to remove heat effectively. It also increases the mechanical seal life. It incorporates many different seal designs with sufficient radial clearance.

Heavy Duty Pump End Drive End Bearings Selected for long life and reliability.

Heavy duty casing with integral foot and multiribbed discharge provides superior resistance to pipe loads and improves Reliability.

External Three Bolt Rotor Adjustment allows impeller clearances to be reset at site, thereby restoring head and efficiency.

Back Pull-out Design allow removal of rotating element without removing casing, piping or motor.



FLOWSERVE - SIHI ZTND

FLOWSERVE - SIHI's ZTND Line is a specialty line of pumps specifically designed to handle hot thermal fluids. Pumps are available in 24 models with only two shaft sizes. SIHI's ZTND designs use a dual heat restricting design allowing the pumping of thermal fluids to 650+ °F. Engineered to allow ambient air cooling while minimizing thermal transfer along the shaft, they offer safety and efficiency, eliminating any need for liquid cooling through their operating range. Shaft sealing is provided by either a set of v-ring lip seals (to minimize the possibility of catastrophic shaft seal failures) or single non-cooled mechanical seal.

Features: ZTND

- Self-Cooling • Unique Shaft Sealing
- Back Pull Out Design

Technical Data:

- Capacity: 2600 GPM • Total Head: 296 Ft.
- Temperature: 662°F (max.)

Material: Ductile iron

Note: Applications exceeding these ranges, please consult Factory

Industries and Applications:

- Chemical • Food • Rubber & Plastic • Paper • Laundry





FLOWSERVE MAG DRIVEN PUMPS

FLOWSERVE - INNOMAG TB-MAG FLUOROPOLYMER- LINED, MAGNETIC DRIVE, ISO OR ASME (ANSI) CHEMICAL PROCESS PUMP

The **INNOMAG TB-MAG** sets a new benchmark for magnetic drive pump value and performance. Compliant with ASME B73.3 or ISO 2858/15783 standards, this versatile pump is engineered to provide low total cost of ownership and exceptional leakage protection in extremely corrosive and environmentally critical applications, including “clean floor” initiatives. While the TB-MAG boasts many innovative design elements, the key to its proven performance is its revolutionary dynamic thrust balancing system. This cleverly engineered system eliminates the need for thrust bearings and results in highly efficient operation with outstanding reliability, even in applications containing solids.

- Dynamic Thrust Balancing System eliminates the need for thrust bearings.
- Pump efficiency, reliability and longevity are improved, while operating costs are reduced.
- Pure ETFE Casing Liner is vacuum rated and has a minimum thickness of 3 mm (0.125 in).
- One-piece ETFE Impeller and Inner Magnet Assembly ensures maximum torque transmission, simplifies maintenance and eliminates balancing.
- Enclosed impeller with unobstructed eye delivers high efficiency and low NPSHR.
- Double-sealed Inner Magnets offer unmatched resistance to corrosive permeation by sheathing the magnets in 316L stainless steel before they are injection molded into the impeller assembly.
- One-piece Composite Containment Shell consists of aramid and carbon fiber reinforced ETFE for optimal leakage protection and corrosion resistance.
- Composite construction means zero eddy current losses for maximum efficiency.
- Stationary Cantilevered Pump Shaft is oversized to handle all radial loads while maximizing flow and minimizing NPSHR.
- Parts Interchangeability among the available sizes reduces inventory costs and eases maintenance.
- Superior solid handling capabilities allow reliable performance up to 30% solids content of 0,13 mm.



YTS AIR OPERATED DOUBLE DIAPHRAGM PUMPS

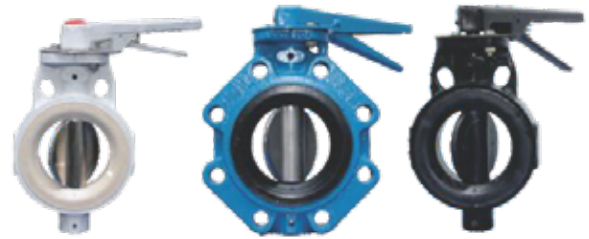
Air Powered Double Diaphragm Pumps available in both metal and plastic body materials and is manufactured by reputed overseas companies. Air powered Diaphragm Pumps offer numerous benefits to all industries and applications and are often used for general manufacturing, fitment to liquid supply machinery, or for general liquid transfer duties.

Following are the benefits of APDD :-

- Completely Self-Priming
- Are Considered Intrinsically Safe
- Transfers Slurries & High Viscosity Liquids
- Easy To Control with variable Flow Rates & High Discharge Pressures
- Do Not Require Oil or Grease Packing Lubrication.

Due the special design features of these diaphragm pumps, there is no need for an oil line lubricator or pre packing with grease. This cuts down on general maintenance costs, and helps to remove airborne oil mist contamination from the local environment.





CHEMITEK - PVDF/ PFA/ FEP/ PP MOULDED PUMPS

PVDF MOULDED, PFA/FEP LINED AND SOLID PUMPS MOC:

- KYNAR PVDF MOULDED PUMPS WITH METALARMOUR
- FEP MOULDED PUMPS WITH METALARMOUR
- PFA MOULDED PUMPS WITH METALARMOUR
- PPH MOULDED PUMPS WITH METAL ARMOUR

These pumps are designed for handling of most serval industrials duties & available in variety of lining materials to suit different requirements involving highly aggressive media at elevated temperature. The wetted parts of the pumps are lined with following Polymers.

1) Kynar PVDF (Polyvinylidene fluoride) 2) FEP (Fluorinated ethylene propylene), 3) PFA (Perfluoroalkoxy) 4) PPH (Polypropelene Homo-Polymer) Application :Permits applications with all aggressive ,corrosive or toxic media up to 200°C with or without abrasive slurries.

Max Head :Up To 120 MWC Capacity :UP TO 500 M3/HR

PP PUMPS: Solid Moulded Polypropelene Pumps Molded PP Pumps have gained wide acceptance by Chemical Industry for handling of corrosive media and ideal choice for handling of acids and alkalis. The pump incorporate robust design to handle corrosive fluids including corrosive slurries. Solid injection molded pumps are available in polypropylene (PP). The pumps incorporate robust design to handle highly corrosive fluids including corrosive slurries.

Application :Permits applications with corrosive media up to 65°C temperature.

Max Head :Up To 50 MWC

Max Capacity :Up To 150 M3/HR



AUDCO VALVES

AUDCO SLIMSEAL is a Wafer type Butterfly Valve with an integrally moulded elastomer body liner. Designed to outperform loose liners, SLIMSEAL's elastomer liner is moulded directly in the body bore and vulcanised in-situ, making it last the entire life of the valve. The result - a valve that requires no form of maintenance. A perfect FIT AND FORGET valve.

AUDCO SLIMSEAL is available in different combinations of body, liner and disc materials to suit a wide range of line fluids, a size range of 50 to 600 mm, and a pressure rating up to PN 16. This permits its use in a wide range of applications making AUDCO SLIMSEAL a truly versatile valve.

AUDCO Ball Valves in various MOCs and pressure classes. These valves are available in single piece, 2 piece and 3 piece construction with flanged end, socket weld end & and threaded end connections.

AUDCO Lubricated Taper Plug Valve has been successfully used in a variety of services because of its unique in-line maintenance capability. The Plug and body seating surfaces, which are lapped and matched, are not exposed to the line fluid; this confines corrosion and erosion to less critical areas. Sealing is further enhanced by a specially developed plug sealant charged evenly around the seating surface. Plugs from 1/2" are impregnated with a PTFE based anti-friction agent- "SUPER LoMu" which provides greater wear resistance and ensures low consistent operating torque. SUPER LoMualso enhances resistance to seizure.





DPP NON-METALLIC VALVES

First time in India “DPP” has developed a patented design ball valves with PVDF Lining on GRPP body. The ball & body is of solid PVDF & ends are PVDF lined on GRPP.

“DPP” Offers non-metallic Ball, Diaphragm, Foot, Non return, Butterfly valves Sight glasses etc. sizes from 1” to 6”. Those are available in different MOCs like, PP HDPE, PVDF, etc. Flanged & screwed end versions are available as per the requirement of customers. Our Foot valves & NRVs are having a ball instead of flap available in the conventional valves. DPP also offer PFA/FEP lined ball / butterfly / NRV / pipes and fitting. DPP also offers PPH Splash Guard to prevent unexpected liquid splash from the pipeline.

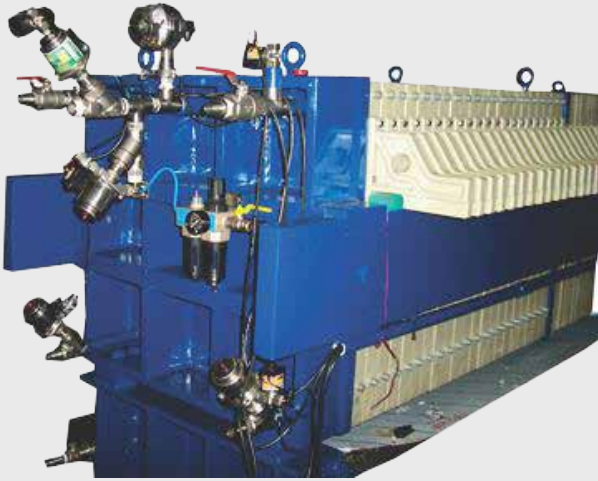


PFA/ FEP/ PTFE VALVE

We offer sleeved Plug valve in SS/CS/Alloy-20, Hast- Alloy materials having following features :-

- PTFE / RPTFE sleeve
- Bolted Cover
- Large Port opening
- Non Lubricative
- Stem integral with plug
- Zero Leakage
- Maintenance Free





FILTER PRESS WITH PP PLATES

Filter press is available in full range of all common sizes upto 2000mm. The closing mechanism of filter press varies from screw spindle to double acting hydraulic system. It is an extremely effective dewatering device widely used in various industries.

HDPE & PIPES, FITTINGS, SHEETS ETC.

We offer HDPE/PP/PP-H/PVDF pipes/fittings/sheets/ rods etc having sizes from 15mm to 630mm OD in various pressure classes. These pipes are made as per IS/ISO standards and gives good performance in acids and alkalies. These are ideal for chemicals, effluent treatment, petrochemicals, paper & Pulp industries. We offer all moulded fittings like tees, bends, stub ends, flanges, reducers etc.

We also offer UHMWPE Sheets & Rods from Ex-stock.





MERSEN - GRAPHITE HEAT EXCHANGER

MERSEN - WORLDWIDE GRAPHITE HEAT EXCHANGER LEADER WITH SOLUTION-ORIENTED APPROACH

For decades, Mersen has designed and manufactured a very comprehensive portfolio of heat exchangers whatever the technologies (blocs, tubes) and the materials graphite, SiC, tantalum, zirconium, titanium). Those heat exchangers can be installed as condensers, heaters, coolers...in the corrosive chemicals processes.

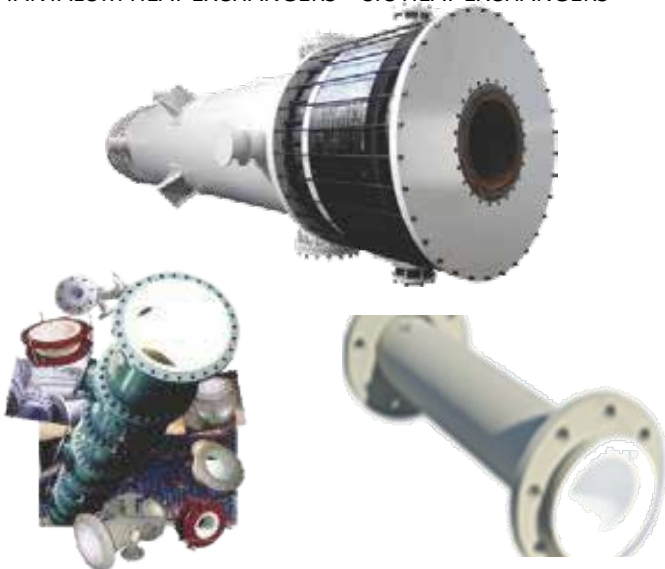
THERMAL DESIGN EXPERIENCE TO SERVE THE PROJECT

Mersen has been recognized as the expert in thermal and mechanical design for all the different types of heat exchangers (condenser, evaporator, boiler...) with performing design tools allowing the calculation of thermal efficiency : ASPEN B-JAC, X-Designer, In-house programs.

Mersen also offers

- Maintenance and spare parts supply, including repair and refurbishment services.
- Fast emergency assistance & Start-up services.
- Process lines check-up and diagnosis

- PRODUCTS OFFERED :-**
- GRAPHITE SHELL AND TUBE HEAT EXCHANGER
 - GRAPHITE BLOCK HEAT EXCHANGERS
 - TANTALUM HEAT EXCHANGERS
 - SiC HEAT EXCHANGERS



PROTEGO FLAME ARRESTORS/ BREATHER VALVES

We offer Flame arrestors, Breather valves & Emergency Relief Valves which are Safety and environmental protection equipments. These can be used on Storage tank farms, Vapour recovery systems, flares, incinerators/burners, loading/unloading & vapour balancing systems. We can also offer breather valve with integral flame arrestors. We offer complete tank safety products.





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