

Membrane Pumps
Solids Handling Pumps
High Pressure Pumps
Marine Pumps

ABEL CM

Compact Membrane Pumps
Problem solvers for difficult media



Specialists for tough applications

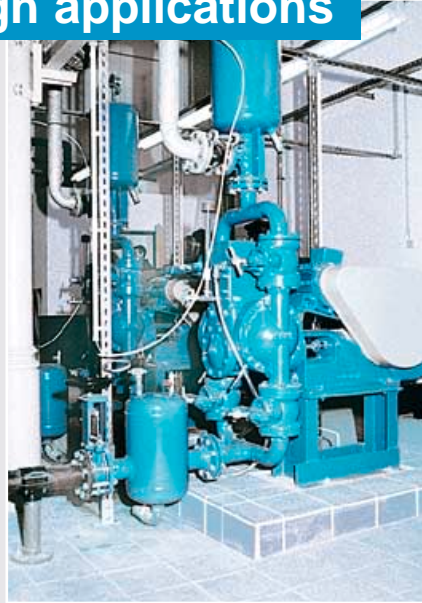
ABEL[®]
Pump Technology

ABEL CM Compact Membrane Pumps

Capacity up to 945 GPM, Pressure up to 1450 PSI

Specialists for tough applications

Stronger than ever. Reliability through double membrane technology.



ABEL CM Pumps – for difficult media

- For sludge transfer
- For filter press or spray dryer feed
- For raw sewage transfer
- For transfer of abrasive, corrosive, acidic, alkaline, pigmented, viscous and granular media

The advantages of ABEL CM

- Up to 945 GPM (215 m³/h)
- Up to 1450 PSI (10.0 MPa)
- Tested design
- Optimal controllability
- Long life
- Serviceability
- Operational reliability through double membrane technology

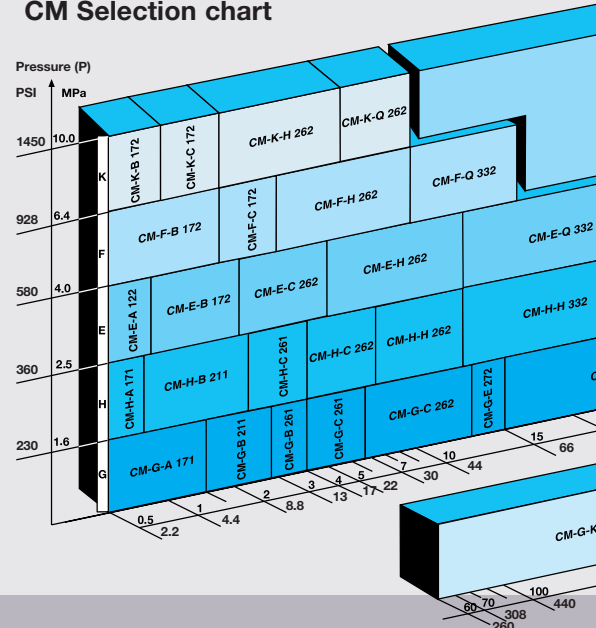
ABEL Compact Membrane Pumps are designed to handle difficult media: for all abrasive, corrosive, granular, pigmented or viscous products. Frequently, they are problem solvers under delicate operating conditions.

At the beginning there are your special operating conditions. Your individual demands and goals are the measure and basis for the overall solution we develop for you. While doing so, we profit from our well-founded know-how that has grown over decades.

For difficult media and applications ABEL compact membrane pumps are the best choice. Down to the last detail they are designed to provide an optimum solution – on a permanent basis.

Enterprises belonging to the sectors of communal slurry dewatering, the ceramics, chemical, pharmaceutical, paint and automobile industry, who attach utmost importance to the continuous economic efficiency, are at best equipped with ABEL Compact Membrane Pumps.

CM Selection chart



ABEL piston membrane pumps have created the reputation of the firm ABEL as a leading manufacturer of reciprocating positive displacement pumps, making them world market leaders in filter press feed (Hydraulic Institute, 1999).

ABEL Compact Membrane Pumps are simplex, single or double-acting specialists for difficult media. Every day they underline their high availability and low wear – during continuous operation.

They perform in tough applications in the following industries:

- Water and wastewater
- Mining
- Ceramic
- Cement
- Automobile



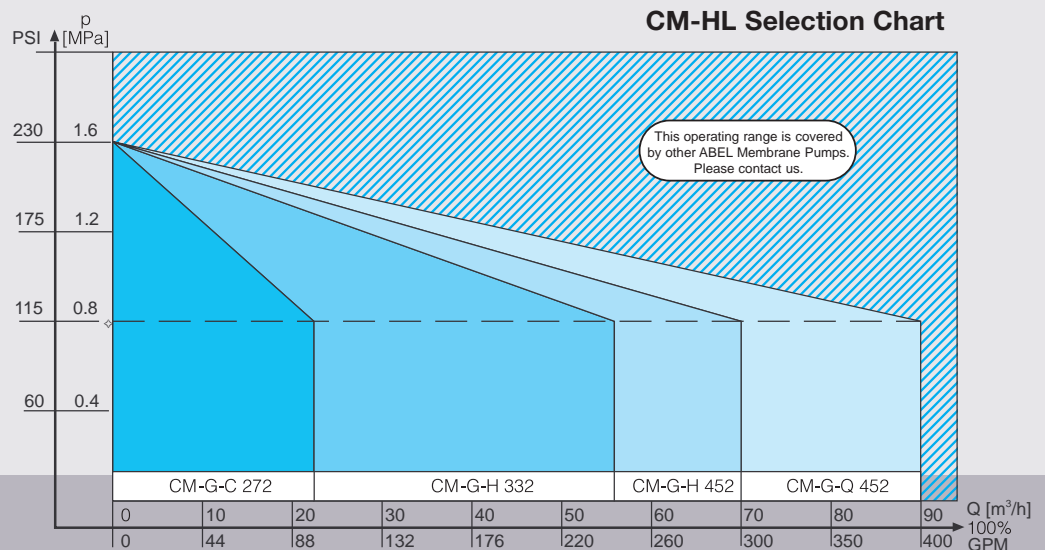
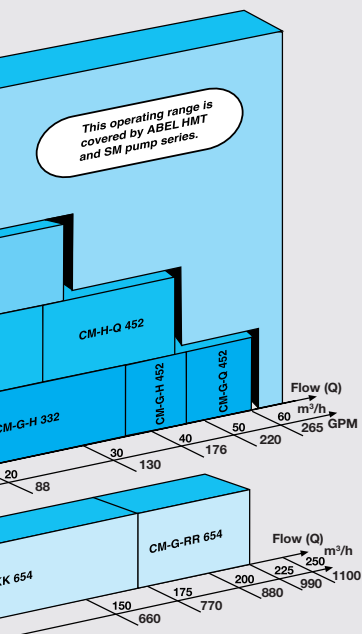
The CM technology

- Optimal design to withstand high pressures
- Maximum filling efficiency
- Minimum dead spaces
- Product side without gland packings
- Ball or conical valves
- Valve housing with inspection openings
- Membrane control indicator
- Safety valve and automatic liquid supplement in the primary circulation
- Central pressure control during filter press operation
- Automatic membrane position control

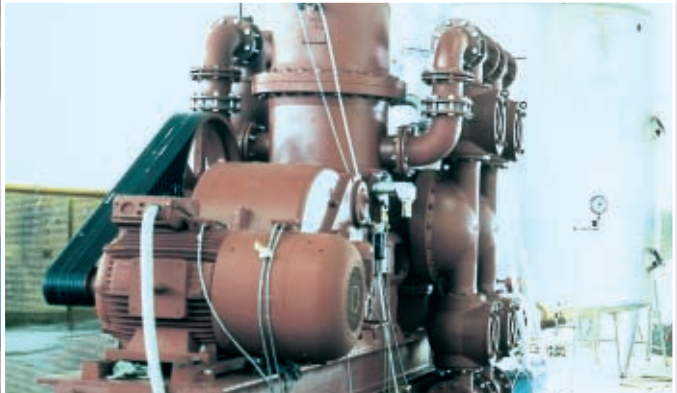
A wide range of suitable materials for all wet end parts are available:

- Nodular cast iron, also rubber lined or coated
- Stainless steels
- Steel casting

In line with the market demands the capacity range has once again been considerably extended and does now reach up to 950 GPM (215 m³/h).



Compact force



Optimum design

ABEL Compact Membrane Pumps are unparalleled in function and quality.

Operational reliability through double membrane technology

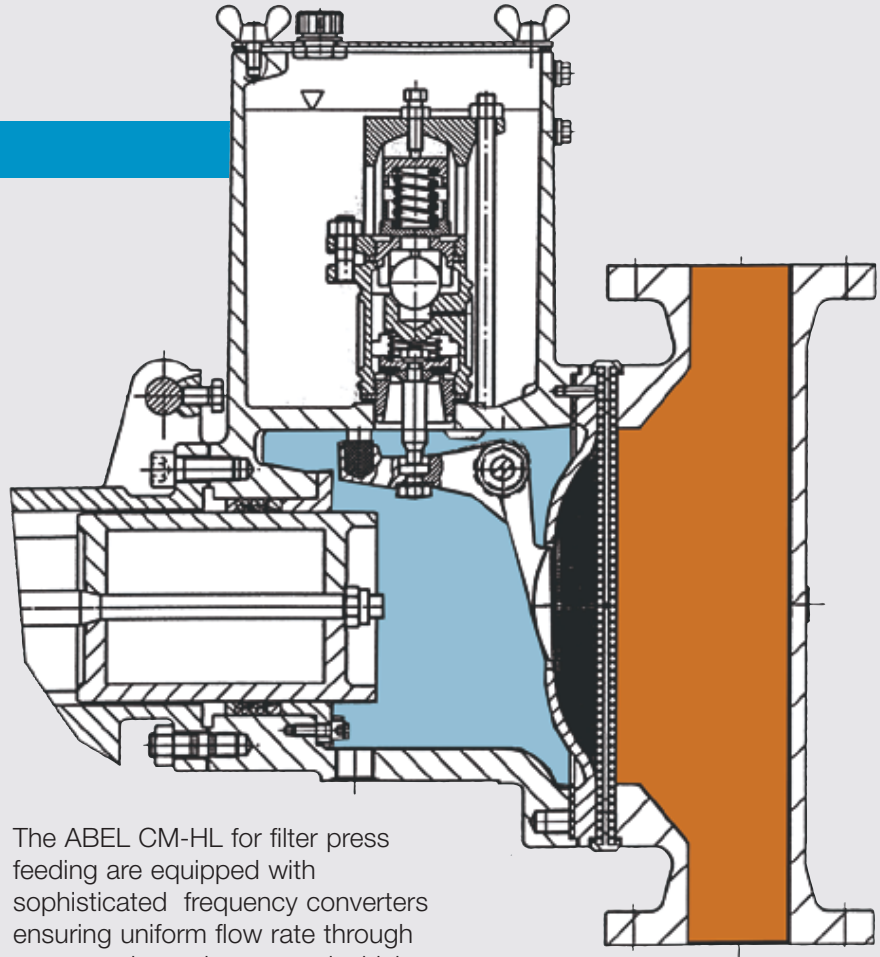
In the event the product or hydraulic medium penetrates into the intermediate space of the double membrane, it is immediately detected by the integrated control function before the product gets into the hydraulic circulation or vice versa. Alternatively, an automatic alarm is activated by an electrical control.

Valve balls for precision and durability

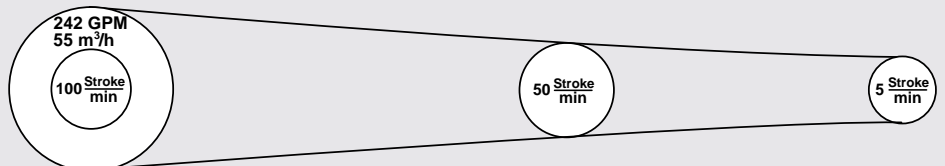
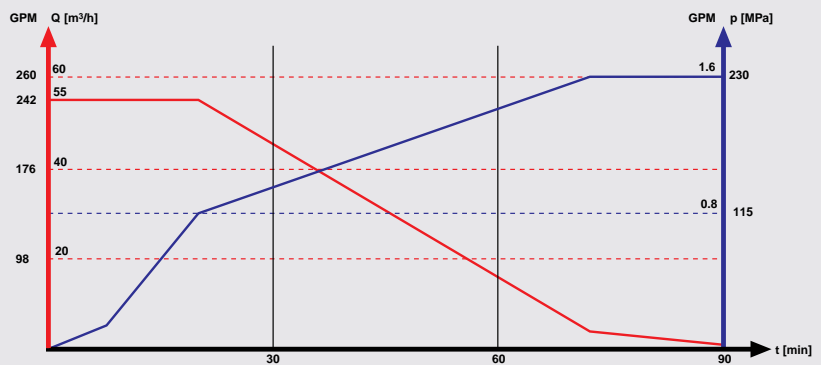
Through the combination of two soft materials ABEL Compact Membrane Pumps run smoothly. In the standard version the pumps are fitted with machine-ground valve balls of highest precision and seats made of polyurethane. Of course, many other combinations are available.

Controlled flow characteristics for feeding filter presses

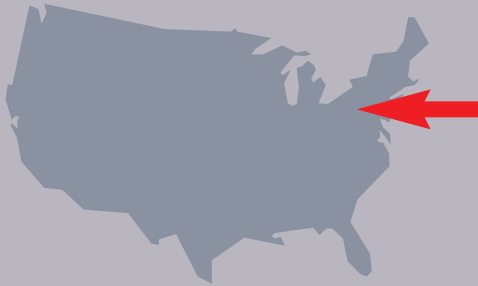
The membrane stroke control by means of the control valve automatically adapts the flow rate to the throughput characteristics of the filter presses. The control valve is calibrated for each application on the ABEL test stands for limitation of the final operating pressure.



The ABEL CM-HL for filter press feeding are equipped with sophisticated frequency converters ensuring uniform flow rate through a torque-dependent control which reduces energy costs.



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Assistance:

The qualified staff of ABEL Pumps, L.P. is ready to assist you with your critical needs.

Please contact us with your specific requirements.

Services include:

- ▲ Start-up
- ▲ Training
- ▲ Installation
- ▲ Repair
- ▲ Warranty Contracts
- ▲ Upgrades
- ▲ Telephone Diagnostics
- ▲ On Site Repairs
- ▲ Part Kits
- ▲ Qualified Representatives for Local Assistance

Certifications:

- ▲ ISO 9001
- ▲ MIL-I-45208A

Helpful Information:

Company:	e-mail:
Address:	Tel./Fax:
	Contact:
Application:	Why needed?
	Temperature:
Fluid:	Sp. Gr.:
Flow Rate:	Pressure:
Solids? % & size:	Viscosity:
Operating Cycle:	Special Materials:

Combined Slurry:

% Solids 1) By Weight 2) By volume

Abrasivity (Miller Number) PH Value

Viscosity Describe consistency

Remarks:

Thank you for the opportunity to be of service! – ABEL Pumps, L.P.