

ABEL High-Pressure Pumps for cleaning filter cloth

Cleaning filter cloth from chamber and membrane filter presses



The application

Chamber or membrane filter presses today are still frequently the best possibility for dewatering slurries and suspensions. The disadvantages of intermittent operation are usually offset by a higher percentage of dry solids in the filter cake. Chamber or membrane filter presses are used in nearly all areas of industry, particularly for the disposal of highly abrasive slurries.

Chamber and membrane filter presses consist of several filter plates covered with cloth.

Depending on the slurry and the filter cloth being used, the cloths have to be cleaned at regular intervals to sustain the dewatering capability of the press.

The ABEL solution

For more than 30 years now, Abel has been offering high-pressure plunger pumps for cleaning filter cloth from chamber and membrane filter presses. The pumps are primarily triplex pumps whose plungers run with a 120° crank offset which, together with a pre-charged membrane type pulsation damper, results in low residual pulsation. Electropneumatic or



electrohydraulic 3/2-way valves are used for the special application of filter cloth cleaning. When changing the washing system from one filter plate to another, the 3/2-way valve is changed over to bypass.

ABEL[®]
Pump Technology



This ensures that the washing water is not pumped back to the nozzles until the washing system spray reaches the next filter plate. A manually operated control valve is also used for fine adjustment of the required nozzle pressure.

Nearly all the world's major filter press manufacturers place their trust in the proven Abel quality when it comes to filter cloth cleaning pumps. Whether for 180, 200, 240, 330 or 400 l/min, for 50, 100 or 120 bar, Abel supplies the right pump for every filter press, and naturally made of stainless steel if necessary.



Pump plungers



3/2-way valve

Accessories (optional)

- Pulsation damper
- Suction/discharge side pressure gauge
- Suction side filters
- Vibration insulating erection
- Soundproofing cabins, and much more besides
- Feed tanks with level monitoring

Advantages of the ABEL solution

- Optimum rating of pump type to filter press size
- 3/2-way valve as bypass control, specially for filter cloth cleaning
- Control valve for fine tuning of the required spray-off pressure
- Space-saving version with top mounted motor available
- Extensive accessories
- Pump plungers available in various materials