

PEMO PUMPS

for **FILTER PRESS**



PEMO PUMPS for filter press

SINGLE and DOUBLE STAGE FILTER PRESS FEED PUMPS



- Pemo's Filter Press Feed Pumps are specifically designed for this application and there is little direct competition in this market due to the wide variety of models developed for this purpose.
- The main advantage of the Pemo Filter Press Pumps is the Side Suction on the Horizontal Design. The seal in this design only sees the feed pressure of the feed slurry instead of the high pressure from the discharge of the pump. This allows simple mechanical seal flushing systems to be used. The seal flush system is sealed so no water or sludge will leak during the flush cycle.
- Pemo Filter Press Feed pumps are designed specifically for abrasive and/or corrosive applications using a variety of materials such as rubber lining, Hardalloy PEMO (750-800 HB), Stainless Steel or Hastelloy.
- Capacities when filling the filter press can reach 900 m³/h (3968 GPM).
- Final Pressure can reach 20 bar (290 psi) for some Double Stage Models creating a much dryer cake than single stage pumps can provide.
- Mechanical Seals are all Silica Carbide or Tungsten Carbide.
- The bearings are all specifically designed for filter press applications and are oil lubricated.
- Lubrication of the 2 mechanical seals can be done by use of clean water at 2 bar (30 psi) maximum pressure. It can also be done by use of oil in a closed pressurized system.
- Some PEMO filter press pumps can also be provided in Submersible or Vertical versions.

PRIMARY MARKETS for PEMO FILTER PRESS FEED PUMPS



- Mining, Quarries and Mineral Extraction.
- Power Plants.
- Aggregate Industry.
- Stone Industry (Granite and Marble).
- Ceramic Industry.
- Chemical Industry.
- Steel Mills.
- Industrial Wastewater Treatment.



PEMO PUMPS for filter press

the SINGLE STAGE RUBBER-LINED VERSION



- Currently there are 8 different Models available: 302, 403, 503, 603, K125, 1004, P200, I-270.
- Capacities when filling the filter press range from 20 to 900 m³/h (88-3968 GPM).
- Discharge pressures range from 4 to 10 bar (59 to 147 psi).
- These pumps are highly recommended for abrasive and corrosive slurry applications.
- Custom designed Pumps can be provided for specific applications.

| Pump model | Maximum Flow | | Max Head | | Max Pressure | |
|-----------------|---------------------|-------|----------------------|------|--------------|--------|
| | (m ³ /h) | (gpm) | (m/H ₂ O) | (ft) | (Bar) | (psi) |
| 302 AO/ABM | 20 | 88 | 30 | 98 | 4 | 58 |
| 403 AO/AB-B3 | 50 | 225 | 50 | 164 | 6 | 87 |
| 503 AO/AB-B3 | 60 | 264 | 50 | 164 | 6 | 87 |
| 603 AO/AB-B5 | 100 | 440 | 60 | 196 | 7.5 | 108.75 |
| K125 AO/AB-B75 | 180 | 793 | 75 | 246 | 10 | 145 |
| 1004 AO/AB-B75 | 250 | 1102 | 50 | 164 | 6 | 87 |
| P200 AO/AB-B10 | 560 | 2469 | 50 | 164 | 6 | 87 |
| I-270 AO/AB-B10 | 900 | 3968 | 50 | 164 | 6 | 87 |

Table with standard versions of single stage rubber lined PEMO Pumps

the DOUBLE STAGE RUBBER-LINED VERSION



- Currently there are 5 different Models available: 503, 603, K125, 1004, P200.
- Capacities when filling the filter press range from 20 to 600 m³/h (88-2469 GPM).
- Standard discharge pressures range from 203 to 217,5 psi.
- These pumps are highly recommended for abrasive and corrosive slurry applications.
- Custom designed pumps can be provided for specific applications.

Table with standard versions of Double Stage rubber lined PEMO Pumps

| Pump model | Maximum Flow | | Max Head | | Max Pressure | |
|-------------------|---------------------|-------|----------------------|------|--------------|-------|
| | (m ³ /h) | (gpm) | (m/H ₂ O) | (ft) | (Bar) | (psi) |
| 503 AO/AB/DC-B5 | 60 | 264 | 120 | 393 | 15 | 217.5 |
| 603 AO/AB/DC-B7 | 100 | 440 | 120 | 393 | 15 | 217.5 |
| K125 AO/AB/DC-B75 | 180 | 793 | 120 | 393 | 15 | 217.5 |
| 1004 AO/AB/DC-B10 | 250 | 1102 | 110 | 360 | 15 | 217.5 |
| P200 AO/AB/DC-B10 | 560 | 2469 | 100 | 328 | 14 | 203 |

the VERSIONS with HARDALLOY CASINGS!!

- Specifically designed for applications with coal slurry where higher pressures are required.
- Operate at higher temperatures and long cycle times.
- Currently there are 4 Models in the Single and Double Stage currently available with additional models being introduced and available later in 2010.
- Recommended primarily for highly abrasive sludges.
- Model 503 AO/AB/DC-B5 is one of the smaller Double Stage Models and is highly recommended when longer cycle times at high pressure are required. This is more cost effective than expensive positive displacement pumps.
- Custom Designed Pumps for specific applications can also be provided.

Table with standard versions of PEMO Pumps for filter press with Hardalloy casings

| Pump model | Maximum Flow | | Max Head | | Max Pressure | |
|---------------------|--------------|-------|----------|------|--------------|--------|
| | (m3/h) | (gpm) | (m/H2O) | (ft) | (Bar) | (psi) |
| 503-H AO/AB-B3 | 60 | 264 | 75 | 246 | 10 | 145 |
| 603-H AO/AB-B5 | 100 | 440 | 80 | 262 | 11 | 159.5 |
| K125-H AO/AB-B75 | 180 | 793 | 80 | 262 | 11 | 159.5 |
| P200-H AO/AB-B10 | 560 | 2469 | 70 | 229 | 7.5 | 108.75 |
| 503-H AO/AB/DC-B5 | 60 | 264 | 140 | 459 | 16 | 232 |
| 503-H AO/AB/DC-B7 | 60 | 264 | 150 | 492 | 20 | 290 |
| 603-H AO/AB/DC-B7 | 100 | 440 | 140 | 459 | 18 | 261 |
| K125-H AO/AB/DC-B75 | 180 | 793 | 140 | 459 | 17 | 246.5 |
| P200-H AO/AB/DC-B10 | 560 | 2469 | 120 | 393 | 15 | 217.5 |

