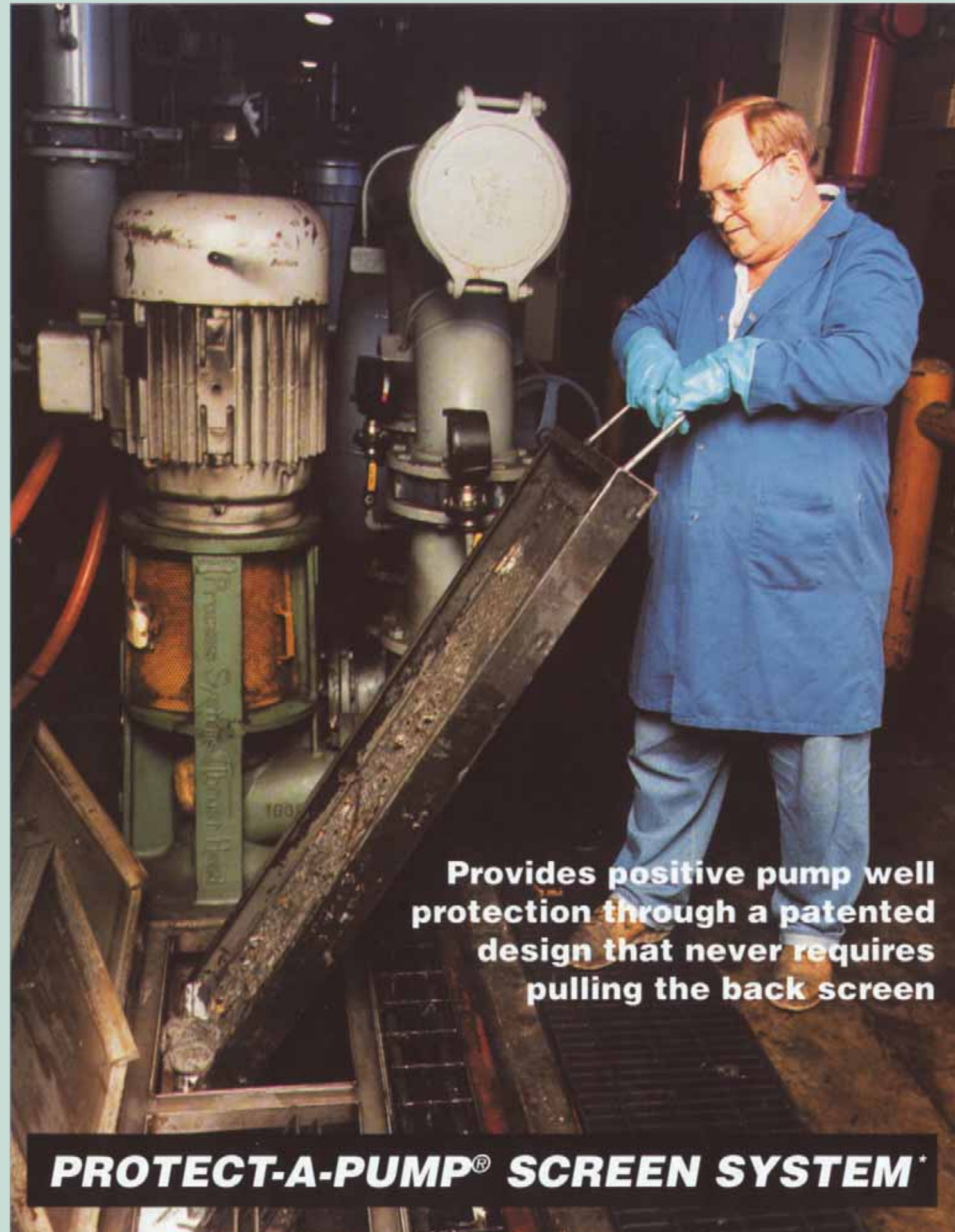




Process Systems, inc.



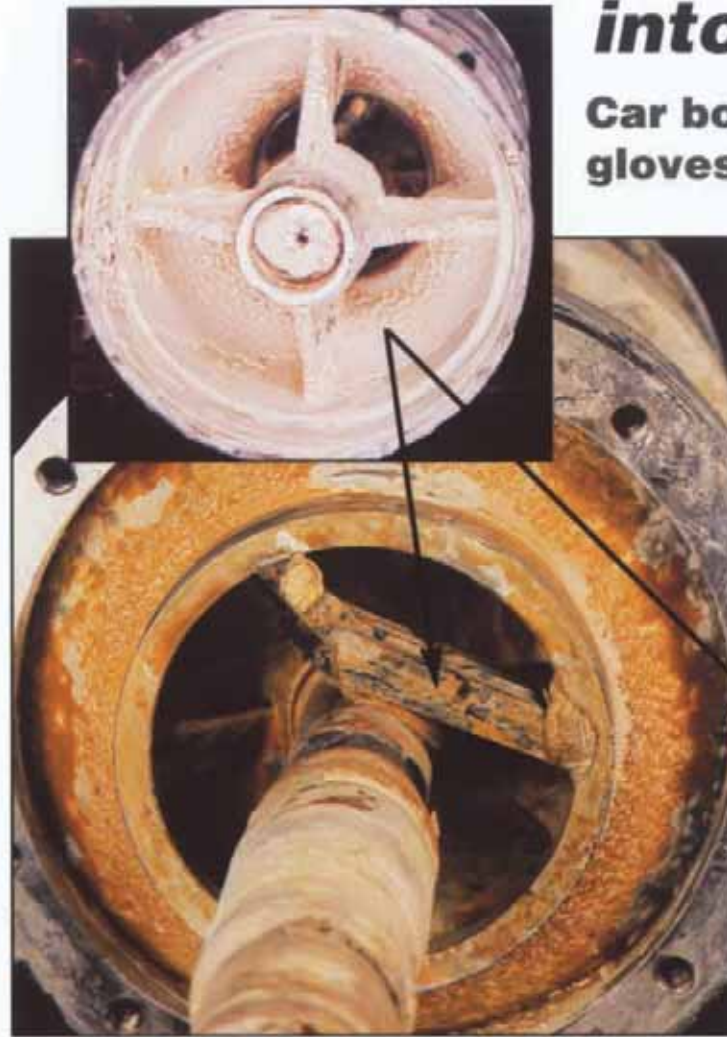
Provides positive pump well protection through a patented design that never requires pulling the back screen

PROTECT-A-PUMP® SCREEN SYSTEM™

Now you can turn these nightmares into distant memories

Car body transponders, rags, work gloves, nuts, bolts—you name it—often find their way into a pump. The results can be devastating.

Our screen system makes existing screen designs obsolete. Developed by the people who specialize in industrial pumping, the **Protect-A-Pump® Screen System*** will eliminate costly pump repairs and the additional expense associated with pulling pumps and cleaning nozzles due to trash ingestion.



A lodged transponder caused this pump to self-destruct



Our unique two-screen system...

- Never exposes pump compartment to the main reservoir
- Virtually guarantees that no foreign debris will enter pump
- Can be retro-fitted to existing tanks
- Does not require emptying tank for proper operation

Ideally suited for...

- Phosphate Systems
- Paint Sludge Systems
- E-Coat and Elpo Dip
- Cooling Towers

...Or just about any other installation that operates best with the utilization of protective screens

Our patented and easy-to-use concept

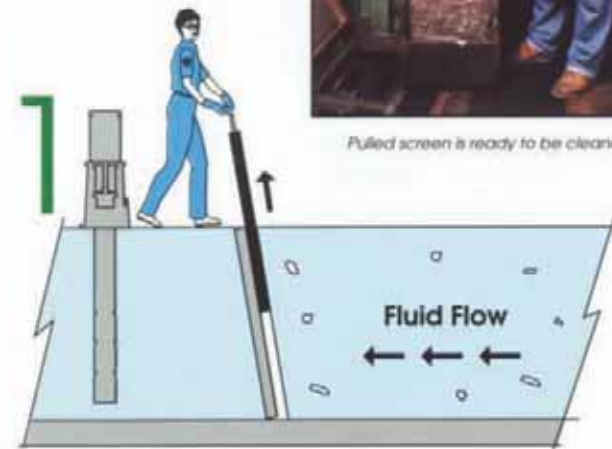
How it works

Step 1.

The front screen is pulled and cleaned while the rear screen remains in place to protect the pump.



Fulled screen is ready to be cleaned



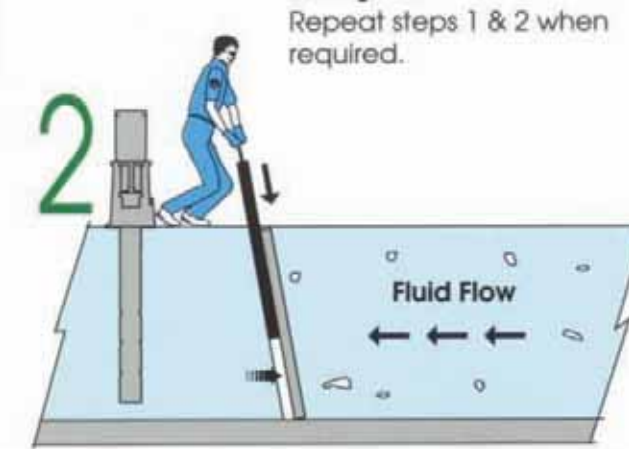
Trapped debris is hosed away

Step 2.

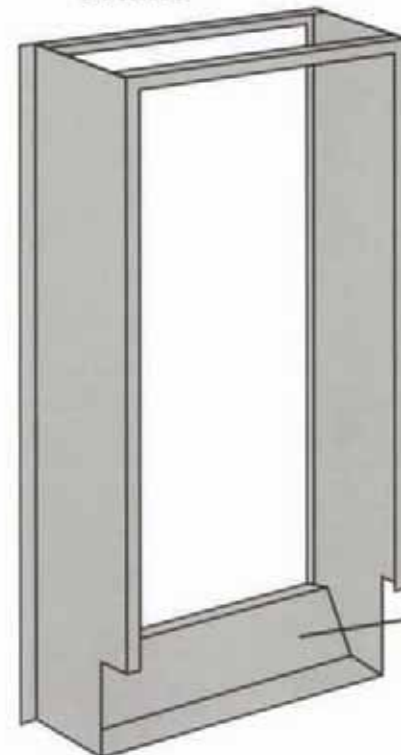
The cleaned, front screen is inserted into the rear, indexing the rear screen forward to the front position. **You never have to remove the rear screen!**

Step 3.

Repeat steps 1 & 2 when required.



The Holder Frame



Screens 1 & 2 (Identical)



Wide handle for easy lifting

Lightweight construction

Can be installed in existing screen tracks

Trash catcher effectively traps and catches debris that naturally falls down the screen when lifted

Patented index ramp allows rear screen to slide forward without ever exposing pump compartment

An Ounce of the best prevention is worth a pound of cure...

Over the past 20 years, Process Systems has achieved excellence in the design and manufacture of pumps used in E-Coat/Elpo Dip, Phosphate, Paint Sludge, Cooling Tower, and other systems. Too often, the greatly improved expected life is cut short by foreign debris. Our drive to continually improve on pump-life expectancy led to the development of the **Protect-A-Pump® Screen System.***

We were left asking the question, "Without an effective means to protect a pump from devastating debris, what good is a superior pump?"

So we rose to the challenge of building superior pump screens. Because we spend out time in America's plants and repair hundreds of trash-damaged pumps each year, we started off with a

through understanding of existing screen deficiencies.

Most single and double screen systems have been designed such that the pumping operation should be shut down and emptied before the screen(s) are removed and cleaned. It's our experience that this rarely occurs. Often the plant is running on two or three shifts for several weeks! so screens must be lifted while in operation. Because these screens lack a catcher at the bottom, debris will eventually fall into the tank when the screens are lifted. Even with two-screen systems, debris will eventually fall off and flow into the pump compartment when the back screen is removed.

Trash migrating into the pump compartments has two detrimental effects. First, if it lodges in the

impeller, liquid flow is reduced. Here, not only is the quality of your process adversely affected, but a pump-destroying vibration develops as well. Second, if the trash passes through the pump on a spray application, your nozzles become plugged, which greatly reduces the quality of your process. Both cases result in greatly increased pump and nozzle maintenance costs, but more importantly, compromise the quality of your end product.

The most aggravating scenario is when flow is sufficiently reduced by debris to prompt the start-up of a back-up pump—a pump that often falls victim to the same problem. Now the user is faced with a high repair bill and no permanent solution—that is, until Process Systems developed the **Protect-A-Pump® Screen System***

*Patent Pending



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