



The PIT-BULLetin - News You Can Use

VOL 2 # 3

PITBULL® C-SERIES PUMP

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HEAT UP YOUR SALES with **PITBULL® C-Series** **HOT** Condensate Return Pumps

The **Pitbull®** has: No seal or cavitation problems that centrifugals have and No mechanical devices like pressure-powered units have.

The applications are everywhere

- Universities
- Government buildings
- Power plants
- Facility utilities
- Hospitals
- Anywhere that has to handle hot condensate.

No floats, valves or springs inside the pump- none of the problems that occur with pressure-powered condensate return pumps.

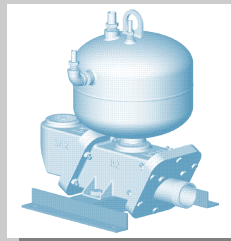
PITBULL® Condensate Return Pumps are designed for direct connection to a flash tank/receiver and may also be used for submersed high temperature sump applications.

PITBULL® Condensate Return Pumps contain...

- NO floats...
- NO over-center devices...
- NO valve mechanisms...
- NO springs...

...inside the pump and therefore none of the problems that occur with other condensate

return pumps. The only wetted moving components are two heavy duty 316SS swing check valve flappers.



Built with pride in the



United States of America

The world is full of abundance and opportunity, but far too many people come to the fountain of life with a sieve instead of a tank car... a teaspoon instead of a steam shovel. They expect little and as a result they get little.

Ben Sweetland

Be courageous. I have seen many depressions in business. Always America has emerged from these stronger and more prosperous. Be brave as your fathers before you. Have faith! Go forward!

Thomas A. Edison

Why the **PITBULL®** Pump is the choice for condensate return pumps.

Pressure powered condensate pumps

(Such as: Sarco, Armstrong, Johnson and Gestra)



Floats that hang up _____

Spring loaded over-center devices _____

are prone to significant maintenance. Servicing the valving or over-center device requires the removal of the pump and extraction of the float/over-center assembly, which is likely to be difficult and dangerous due to the hot condensate and the hot pump.

Valving _____

inside pressure powered pumps is relatively small compared to the PITBULL, their small passageways limit flow capacity and require greater fill heads to achieve comparable flow rates.

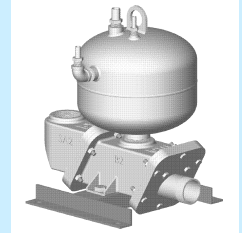
Centrifugal Pumps

Prone to cavitation _____

Seals fail from heat _____

Submersed motors fail from heat _____

The PITBULL®



No floats to fail

No over-center devices

All controls are completely separate from the pump and can be service/swapped without handling the hot pump

No Valving in the pump and wide open full pipe size passages and full port check valves to pass debris. (A 2" pump passes 2" solids, a 3" pump passes 3" solids., a 4" pump passes 3.75" solids.

Immune to cavitation

No seals to fail

No motor to fail

And the C-Series is configured with hot condensate in mind by adding -

- EPDM check valve seats
- Teflon exhaust valve shaft seal and high temp housing
- EPDM poppet seats in discharge and exhaust valves
- EPDM Hoses and more

FAQ

Can the piping be reduced?

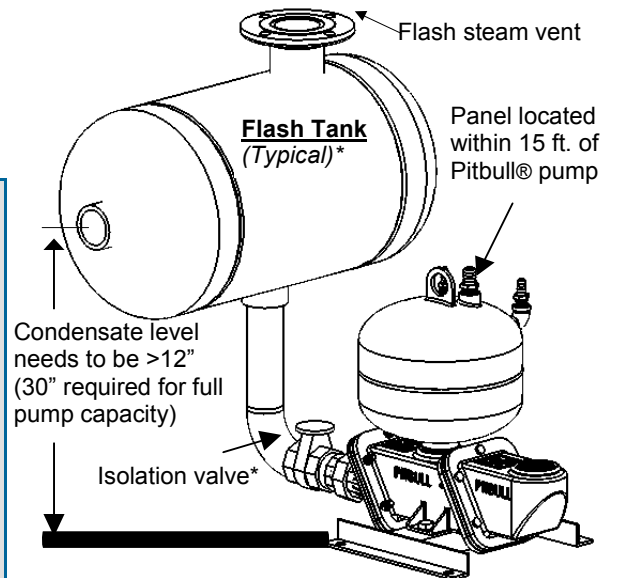
Yes, but try to avoid dropping more than one pipe size. Smaller piping causes higher head and line velocities as well as slowing the maximum cycle (flow) rate.

Should isolation valves be used before and after the pump?

Definitely- YES.

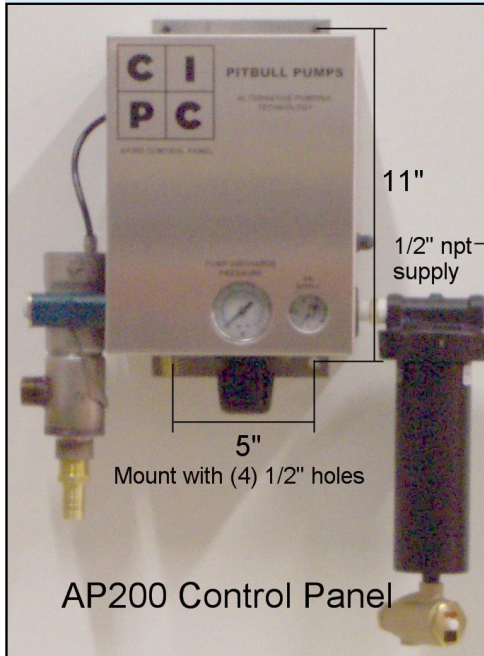
Can the Pitbull® be supplied with pressurized (not flashed) condensate and exhaust into a pressurized tank or pipe?

No, this should be avoided.



*Note: Flash tanks and isolation valves are not supplied, drawing for reference only.

PITBULL® condensate return pumps operate remotely and automatically by the innovative, all-pneumatic **AP200C** control panel.



The pump comes complete with the AP200C control panel and 15' of Epdm airlines to allow for location of the panel within a 15' radius of the pump.

The AP200C Control Panel:

- requires no electricity
- will automatically pump at low flows
- will automatically match the incoming flow
- is safe for use in hazardous/explosive environments
- won't wait for a high sump level to begin pumping

How is the pump controlled?

On-Off should be controlled by opening or closing the liquid supply or vent path. Without liquid the pump will not cycle (do not cut off the air supply - the pump will fill and not be able to pressurize).

Can the flow rate be controlled?

Yes, three different ways.

- 1) Throttle the inflow to slow the cycle rate,
- 2) Throttle the exhaust to slow the fill rate
- 3) Adjust the air pressure to control the discharge flow rate.

The **PITBULL®** - Just place it and forget it

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Be sure to visit us on the
web and view the video
of the **PITBULL®** in
action at:
www.pitbullpumps.com



**Home of the
PITBULL® Pump
since 1990**

And since it is a **PITBULL®** it has the same full port solids handling capacity that all **PITBULLS** are famous for, making it capable of handling solids, trash, stringy and/or sticky materials under high temperature sump conditions.

Every **PITBULL®** pump -

- will pass clinkers & large chunks even at low flows/high heads
- has full pipe sized passages & full port checks to pass debris from long & stringy to large & hard
- absolutely will not run dry or try to cycle without liquid.
- has a low internal velocity to dramatically reduce wear from abrasives
- has wetted components available in corrosion resistant alloys
- uses a cyclic pumping action to reduce solids settling & pass large debris that would plug other pumps.
- has a temperature limit of up to 400F
- and works without the components that fail in other pumps-

**NO IMPELLERS - NO SEALS - NO SHAFTS - NO BEARINGS
NO DIAPHRAGMS - NO MOTORS - NO DIAPHRAGMS
NO PACKING - NO BEARINGS and NO FLOATS**

to fail from high temperatures, abrasives,
corrosives, cavitation, or running dry.

PITBULL®
A CHANGE FOR THE BETTER

‘CHANGE’ is the buzzword for 2009. With the economic headlines pushing everyone to think of cost savings changes it is an ideal time to “change” from standard high maintenance pumps to the virtually maintenance free **PITBULL®** pump.

Buying a Pitbull is a way for you to cut expenses.

Thanks to it’s unique design the **PITBULL®**
Saves on repair parts **Saves on repair labor**
Saves on downtime
Saves on headaches and frustration

Don’t let pump failures put you in the doghouse.

Replace your outdated pumps with the cutting edge in pumps
the **PITBULL®**.

The reason a lot of people do not recognize opportunity is because it usually goes around wearing overalls looking like hard work.

Thomas A. Edison