



The PISTA® Grit Removal System™, featuring the PISTA® Turbo Grit Pump™ is the leading grit removal system in North America.

The PISTA® TURBO Grit Pump™ Eliminates Freezing Concerns

Cold weather climates can cause severe damage to your grit pump and grit removal system, if not properly designed. That is the case with the PISTA® TURBO Grit Pump™ versus a self-priming grit pump. As demonstrated below, the self-priming leaves fluid inside the

pump, above grade, and exposed to the elements. This can cause the pump or piping to crack. But the PISTA® TURBO Grit Pump™ leaves all fluid below grade when not pumping, eliminating this potential damage.

Advantages over Self-Priming Grit Pumps

- Straight suction pipe with no bends or elbows
- Intentionally drops prime after each pump cycle
 - a. Built in flushing of suction line
 - b. Does not retain water in volute (freeze protection)
- Fully recessed impeller designed for grit applications over traditional sewage pump
- Ni-Hard impeller and volute with 550+ brinell hardness provide superior abrasion resistance over cast iron
- Priming pump optimized for air removal and grit pump optimized for grit movement, not combining into one pump not optimized for either.
- Pinch valve design reduces potential for occasional debris lodging over traditional check valves
- Components easily accessible for trouble shooting
- Vertical pump reduces sewage spills over horizontal pumps
- Pump will not overheat if priming not achieved



PISTA TURBO® Grit Pump™

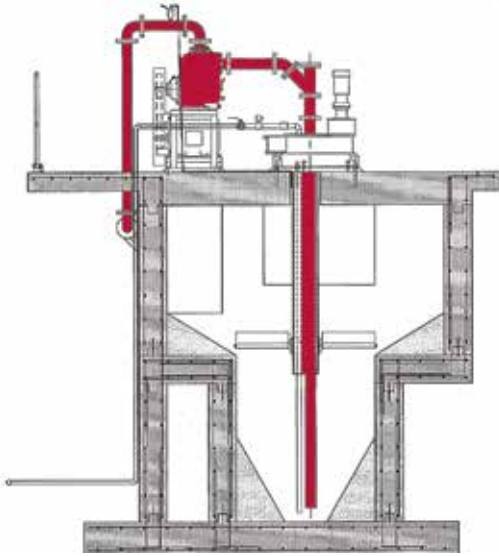


Self-Priming Grit Pump™

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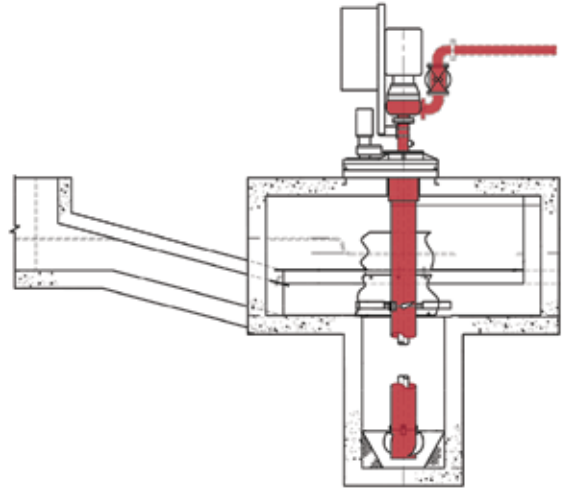
Primed and Pumping

Self-Priming Grit Pump



The self-priming pump, while primed and in its pumping cycle, has fluid throughout the piping scheme.

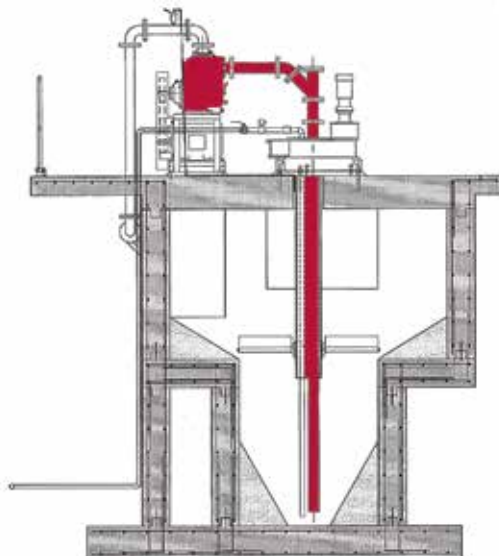
S&L PISTA® TURBO Grit Pump™



The Top-Mounted PISTA® TURBO Grit Pump™ primes after the Pinch Valve is closed. After the pump is primed, the Pinch Valve opens and the Grit Pump starts its pumping cycle to remove grit slurry to the classifier.

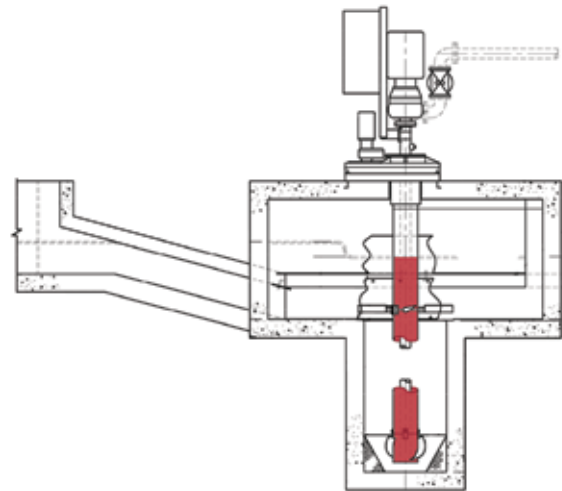
“Off Position”

Self-Priming Grit Pump



While not primed and in the “Off” position, fluid remains in the pump and suction leg, creating a high risk of freezing and damage to all equipment in cold weather climates.

S&L PISTA® TURBO Grit Pump™



The Top-Mounted PISTA® TURBO Grit Pump™ “Off” position, with the Pinch Valve open, allows the liquid level in the suction leg to drop to the liquid level in the grit chamber. No liquid is retained in the pump volute and discharge line. This prevents freezing of the liquid in the pump discharge line to the classifier.