

TWO-SCREW PUMP SMART TECHNOLOGY PACKAGE

SAFE AND RELIABLE TANK UNLOADING & STRIPPING



The key to smoother terminal and refinery logistics is operating with speed, efficiency and predictability. For the smoothest transfer and unloading applications, your pumps should run as fast and as safely as they can 100 percent of the time with minimal or no operator intervention.

UNLOAD YOUR TANK ENTIRELY, CAVITATION-FREE

Terminal operators utilize two-screw positive displacement pumps to run operations as fast as possible at constant capacity, despite varying process conditions and liquid properties. Transfer and tank stripping operations can now harness smart control technology specifically developed for rotary screw pumps to optimally size and operate pumps without fear of cavitation, mechanical seal damage, dry running, or pump failure.

SIMPLY INSTALL IT, SET IT AND FORGET IT.

CIRCOR's Two-Screw Smart Technology Package automatically adjusts flow in real time to operating conditions protecting the pump from cavitating, while maintaining the highest capacity possible. Our patented algorithm, designed to detect cavitation, makes it possible to preserve required flow in normal operation without oversizing the pump for worst-case scenarios that may occur when stripping a tank or pipeline.



A SMARTER SOLUTION

The Two-Screw Smart Technology package is totally self-contained and requires only a start command to perform stripping operations, making it a true “plug n play” solution.



Entire stripping operation completes without manual intervention from operator.

Once installed, its unique and patented technology measures cavitation directly from inside the pump in real time. Should any significant pressure reductions at the pump suction take place during unloading or stripping, the pump will continue to run at the fastest speed possible while still preventing cavitation or audible vibration.

PERFORMANCE THAT YOU AND YOUR CUSTOMERS CAN RELY ON

You'll feel smarter knowing you have the flexibility and reliability to serve your customers. Minimize your risk of demurrage as ships, trucks, and railcars will move through your facility without delay in your loading and unloading operations. And you'll be able to reduce your pump footprint by using one pump for your unloading, transfer and stripping functions.

ADAPTABILITY COMES STANDARD

Our pumps are built to perform optimally no matter the condition and can adapt to a number of fluid types, which means, your stripping operation can safely rely on a single pump no matter what fluid you're handling.

Electrical approvals	CE, CSA/UL, ATEX
Area ratings	NEC Class 1, Division 2; ATEX Zone 2
Inputs	Start/Stop, Remote Start/Stop, E-stop
Outputs	Pump Speeds
Standard provisions	Pump with embedded sensors, Motor, VFD, Control Panel (interconnecting wiring by others)

THE RIGHT PERFORMANCE STARTS WITH THE RIGHT PUMP

Our Two-Screw Smart Technology package ensures you have an optimally sized pump running at full speed, which means you're not overpaying for an oversized pump to deal with operating conditions that may only occur a fraction of the time. NPSH safety margins can be reduced or eliminated, while the Smart controls manage it for you.

Maintaining top pump speed and throughput will also give your operation a measure of safety and you'll notice as much as a 15% reduction in spare and replacement parts.

FOR ADDITIONAL INFORMATION VISIT:
circorpt.com/two-screw-pump

