



Sloan Lubrication Systems

Smarter Compressor Lubrication

The Watchman. Our original.
The system that started it all.

Our Watchman Lubrication System provides protected lubricant delivery for compressors, pumps, and other critical equipment. Engineered with customization in mind, The Watchman is designed from the ground up using precision components that deliver optimum performance to meet the specific needs of any application.

Benefits of the Watchman System

- **Fail-safe** - Protected lubricant delivery and real time flow rate verification prevents damage to your equipment
- **Easy to service** - Locating critical components in a single easily accessible location speeds service and increases safety
- **Easy to install** - Shipped fully assembled, tested and ready for operation to save time and money
- **Standardized** - Consistent lubrication system design simplifies training, maintenance, and troubleshooting
- **Weatherproof** - Available in a heated and climate controlled cabinet for severe duty applications

Industries

We have solutions for **Natural Gas Gathering, Midstream, and Transmission, Oil Extraction and Refining, Chemical Processing, Cement and Aggregates, Agriculture, Food Processing, Wastewater**, and many other critical machinery applications.

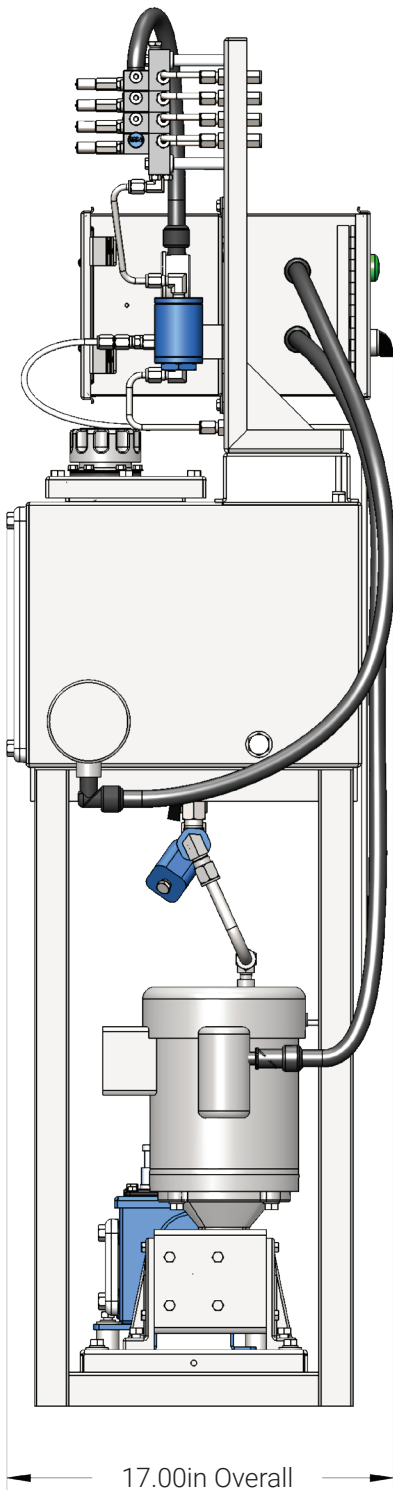
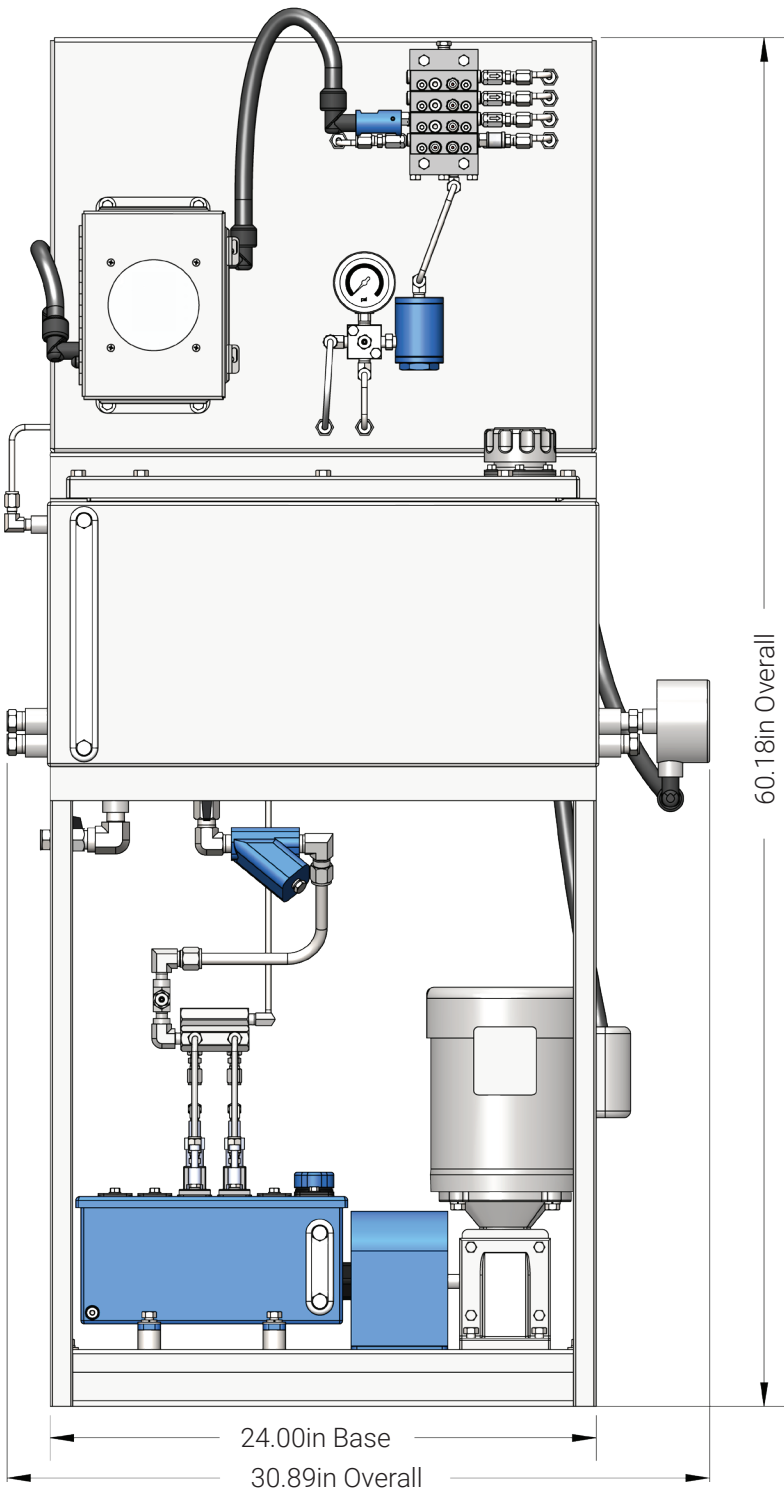


Sloan Components: Engineered and Tested for Your Critical Equipment

1. **Lubrication Panel** – Critical components in central location for easy service and at-a-glance condition analysis
2. **Wizard Monitor** – Providing constant monitoring, data logging, and fail-safe protection for your critical machinery
3. **SLS Divider Block** – Manufactured to the highest quality standards for precise, guaranteed lubricant delivery
4. **SLS Lubricator Box** – Corrosion resistant, rugged, dependable, performance in the most critical applications
5. **SLS Pump** – Precision machined with high performance seals, a hardened stainless steel piston and black nitride for corrosion resistance
6. **Supply Tank** – Powder coated rectangular tank with large access cover for easy maintenance
7. **Gauge Assembly** – Protects your system with filtration, high pressure relief, and system pressure indication
8. **Right Angle Reducer** – Enables a compact footprint and slow speed coupling for space savings and long service life
9. **Watchman Stand** – High strength powder coated steel for a compact footprint, easy maintenance, and corrosion resistance
10. **Electric Motor** – Various options available

Application Info

The Watchman Lubrication System is highly adaptable and has been used on many types of critical machinery including: reciprocating compressors, rotary vane compressors, vacuum pumps, plunger pumps, centrifugal pumps, rotary cookers, cement transport blowers, vertical lift pumps, vacuum chillers, atomizers, and bearings



Technical Specs

- **Zones** – 1 – 4 independent zones of lubrication
- **Flow Rates** – fractions of a pint to gallons per day
- **Available for hazardous locations, UL, IEC, ATEX**
- **Communications**
 - » RS485 MODBUS RTU
 - » 10/100 Ethernet (Web Server + MODBUS TC / IP)
- **Outputs**
 - » 4 zone alarm relays, Max 250V, 5A (NO) / 3A (NC)
 - » Power fail relay, Max 250V, 5A (NO) / 3A (NC)
- **Power Requirements** – DC, AC single or 3 phase
- **Tank Sizes** – Powder Coated or 316 Stainless in 15, 35, 60 gallons– Custom sizes available
- **Filter Sizes** – 10, 25, 40, 90 and 150 micron
- **High Pressure Rupture Relief** – available with optional high pressure relief valve
- **Stainless Swagelock tube fittings standard** – others available upon request
- **Corrosion resistance** – using stainless steel, black nitride, anodized, or powder coated components

Accessories

- **Powder coated or stainless steel cabinet for environmental protection** – Available with a heater
- **Tank Accessories** – Heater, low level alarm, automated level control, desiccant breather, tank transmitters
- **Electrical Control Package** – For plug-and-play operation
- **Pressure Sensors** – For automated pressure monitoring
- **High Pressure Relief valve** – For an automated upgrade to the rupture relief
- **Handheld Purge Pump** – For easy priming during startup and maintenance
- **Test Stand** - For divider block testing to verify failsafe operation
- **Check Valves** – Stainless steel double poppet check valves built to custom specifications
- **Stainless tank / stand / panel options**
- **Pre-wiring package or full controls available**



TRICIP. Our flagship system.
Revolutionizing compressor lubrication.

TriCip revolutionizes compressor lubrication, enabling up to 90% lubricant reduction by combining an exclusive, state-of-the-art delivery system with an advanced, proprietary fluid and IIoT monitoring and control for fully automated delivery.

Features and Benefits

- **Eliminates liquids contamination** - Compressor lube oil carryover reduced, improving reliability, minimizing downtime
- **Automatically adjusts lubrication rates for break** - Prevents over-lubrication, carbon buildup, catalyst fouling, and excess emissions
- **BIB (Bag in Box) fluid delivery system guarantees contaminant free lubricant** - Increases reliability and uptime, extending component service life
- **Eliminates amine and dehy contamination** - preserving the life of processing liquids saving time and money
- **Reduces pigging, fouled filters, metering inaccuracy** - Reduces downstream equipment damage risk, increasing profitability and liability protection
- **Drastically reduces the amount of lubricant consumed** - Minimizes operating costs and reduces compression operation carbon footprint

Application Info

For natural gas compressors in main line transmission and midstream, with clean, pipeline quality gas. Options available for other applications.



Benefits of 90% compressor lube oil reduction

- Minimize gas stream contamination
- Reduces pigging and clogged filters
- Reduces hazardous waste
- Minimize carbon footprint

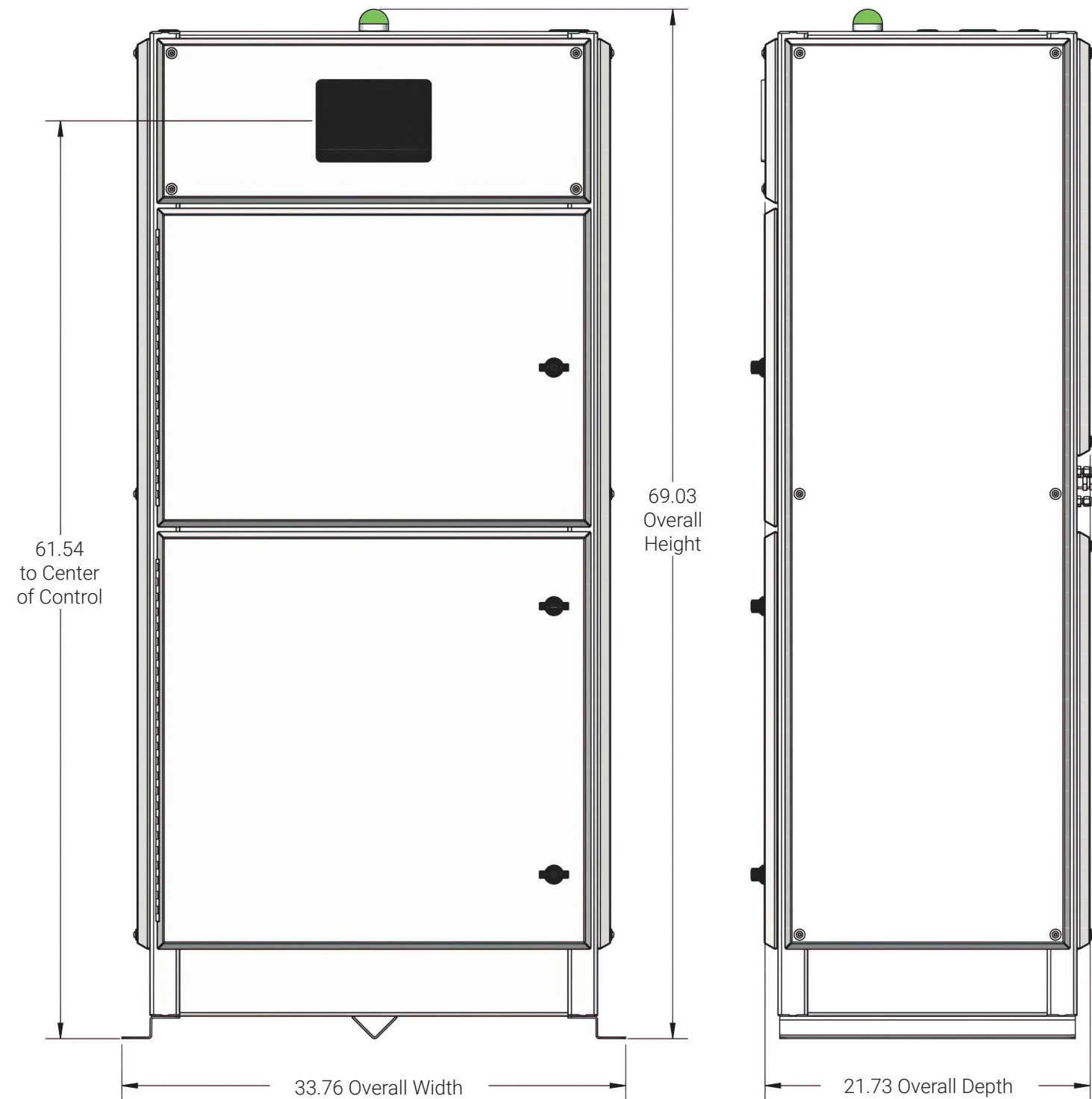
Features of TriCip

- **First-of-its-kind** – BiB (bag in box) delivery system
- End-to-end lube oil supply chain
- Standardized design for rapid cost effective deployment
- Real-time operational reporting
- Automated rate optimization for variable conditions
- **Complete, automated lubrication system contained in a durable cabinet** – available with turnkey service

What's with the box?

Our BIB (Bag in Box) fluid delivery system is an end-to-end supply chain for your TriCip Fluid designed to eliminate contaminants. As lubrication rates decrease, it becomes increasingly important to eliminate contaminants from the lubricant supply. Day tanks, bulk storage tanks, and delivery via tanker truck are all sources of contamination. TriCip Fluid arrives via regular shipments in a specially designed box and achieves a level of fluid integrity not possible using other delivery systems. TriCip also eliminates the need for large bulk storage tanks and piping which enables significant cost savings and minimizes site liability due to the risk of spills.





Technical Specs

- **Zones** – 1 – 2 independent zones of lubrication
- **Flow rates** – Up to 90% reduction from OEM rates
- **Available for hazardous locations Class 1, Div. 2, Group ABCD**
- **Communications**
 - » Serial or Ethernet available for all major PLC / SCADA platforms
- **Outputs** – Alarm relay, Max 250V, 6A (NO or NC)
- **Power Requirements** – 24V DC, AC single or 3 phase
- **Tank Sizes** – 2 x 20 liter removable BIB cartridges
- **Filter Sizes** – 10 micron
- **High Pressure Rupture Relief**
- **Up to 5000PSI pressure**
- **Corrosion resistance** – Using stainless steel, nitride, anodized, or powder coated components



Custom Sloan Lubrication Systems

Fail-safe lubrication systems designed for your application.

Custom Sloan Lubrication Systems are engineered to your specific application requirements to speed installation and minimize onsite work and transition costs. Our custom systems provide precision lubricant delivery and fail-safe protection in a custom engineered design.

Features and Benefits

- **Fail-safe functionality** - Protects your equipment from failure with multiple monitoring options
- **Custom engineered** - Designed to meet the requirements of your specific application to minimize on-site work and transition costs
- **Accurate** - Precision lubricant delivery for maximum efficiency
- **Dependable** - Robust construction with corrosion resistant components provides years of reliable service



Industries

We have solutions for natural gas gathering, midstream, and transmission, oil extraction and refining, chemical processing, cement and aggregates, agriculture, food processing, wasteater, and many other critical machinery applications.



Options

- Custom floor, wall, remote, or equipment mounted designs
- Powder coated steel or 304 / 316 stainless tanks in 15, 35, 60 gallon sizes.
- Custom sized or configured supply tanks available as well
- Utilize existing tank or header supply
- Available for hazardous locations, UL, IEC, ATEX
- Discrete system mounted monitoring or PLC integration
- Voltage – DC, AC Single or 3 phase
- Built in electrical controls / prewiring for integration with customer provided controls
- Custom stainless steel or powder coated cabinets available for environmental protection

Application Info

Sloan Custom Lubrication Systems are used on new and existing critical machinery including: reciprocating compressors, rotary vane compressors, vacuum pumps, plunger pumps, centrifugal pumps, rotary cookers, can seamers, cement transport blowers, aggregate pulverizers, vertical lift pumps, vacuum chillers, atomizers, bearings, and many more.



Take the Next Step

Talk to an expert about optimizing your lubrication system

Call us or request a quote online 24/7

+1 (877) 278-6404 | connect@spartancontrols.com

