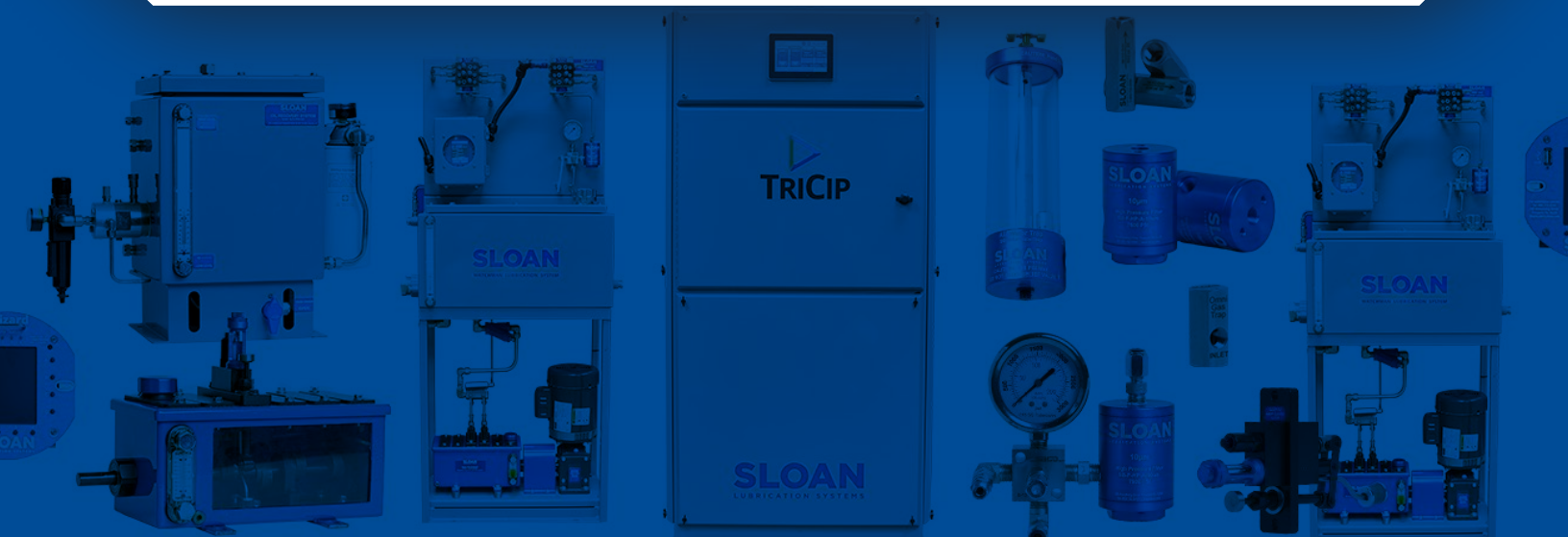


SLOAN
LUBRICATION SYSTEMS

100 YEARS

PRODUCT
CATALOG

CENTENNIAL EDITION



THE **FIRST**
NAME IN
LUBRICATION
SYSTEMS

SL



SLOAN
LUBRICATION SYSTEMS

SLOAN



SLOANLUBRICATION.COM

A CENTURY OF SERVICE



Our Commitment

To never fail to exceed all customer expectations in providing the absolute highest quality products, service and delivery available in the lubrication industry.

Since 1922, this commitment has driven our team and defined our company as we continue to put extraordinary attention, effort, and expertise into designing and applying the optimal components for the most accurate, dependable, and innovative lubrication solutions for reciprocating and rotary equipment.

Today, in our 100th year of operation and under the management of the fourth Sloan generation, we remain focused on the art and science of lubrication, designing and custom-building systems using the highest-quality components, manufactured in our own facility or in partnership with trusted suppliers

Every component and sub-assembly is inspected and tested to ensure flawless performance. Your custom system is installed on your site by our specialists, who also test every aspect of operation and provide training for you and your personnel to ensure complete understanding of your new lubrication system and its processes. We also offer in-depth maintenance on all components to ensure reliable operation for years to come.

Our commitment to constant innovation drives us to develop new lubrication system technologies to meet emerging market needs, provide enhanced functionality, and deliver total customer satisfaction with each and every system we build, install and service.

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SERVICES

Supporting your
operations with a full
range of services.

Sloan

The First Name in Service.

At Sloan Lubrication Systems, we take a comprehensive approach to service. Whether you need help troubleshooting a simple divider block, an engineered solution to a system-wide problem like lube oil carry over, or a full preventative maintenance service and overhaul of your current systems, we will take care of you.



Field Service: Our skilled technicians are experts at new system installation, preventative maintenance and troubleshooting.



Technical Support: Our team is available 24/7 to answer your lubrication systems questions and help you solve your problems.



Engineering and Design: High specification design, optimized systems and in-kind replacements – we do it all.



System Evaluation: Have questions or concerns about your existing lubrication systems? Our team can perform a detailed evaluation complete with recommendations for future reliability.



Training: Lean on us to make sure your team has all the necessary knowledge and skills to maintain and service your lubrication systems.



Emergency Services: At Sloan Lubrication Systems, we are always on call.

Industries Served

We are your source for new system installation, existing system preventative maintenance, troubleshooting and emergency service, and we are always happy to perform an on-site or virtual evaluation to help you understand the health of your system. 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.

We Service Machinery Lubrication Systems:

- Reciprocating Compressors
- Rotary Vane Compressors
- Vacuum Pumps
- Plunger Pumps
- Centrifugal Pumps
- Rotary Cookers
- Can Seamers
- Cement Transport Compressors
- Aggregate Pulverizers
- Vertical Lift Pumps
- Vacuum Chillers
- Atomizers
- Bearings



OEM Solutions

Custom systems and components for OEMs.

If you manufacture a few units per year or a few thousand, Sloan Lubrication Systems is the solution for your application, delivering reliable, custom lubrication systems and components to specification and on time.

Benefits

- Durable, high-precision components offer enhanced performance and longevity, improving customer experience
- Full line of systems, components, and accessories makes Sloan Lubrication Systems a single source supplier for all lubrication system needs
- On-time delivery guarantees fewer supply chain disruptions to maintain on time shipments
- Private labeling available for high quantity orders to keep your brand prominent
- Custom design services ensure perfect fit to minimize installation costs
- Complete fully assembled systems or component kits for flexibility to meet the needs of your manufacturing process
- Recommendations for optimization based on Sloan Lubrication Systems' 100 plus years of experience



Options and Accessories

- Divider Block (Series Progressive) or Pump-to-Point (P2P) systems available
- Electric Motor, auxiliary shaft, or belt driven system options
- Fail-safe monitoring devices
- Electrical control and PLC integration packages
- Filtration for air, water, and particulate
- Rupture disk or relief valves for over pressure relief
- Mechanical indicators for flow and pressure
- Check valves – soft seat Viton or Buna poppet checks
- Custom bracketing to mount directly to equipment
- Custom labeling and coatings for certain components available for high volume orders
- Spares kits and maintenance packages

Application Info

Sloan Lubrication Systems serves OEMs with custom systems for many types of 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.

To find out what solutions we have for your industry, contact us today at Sales@SloanLubrication.com.





TRICIP

SLOAN
LUBRICATION SYSTEMS

SYSTEMS

Automated, efficient,
and fail-safe to eliminate
downtime and reduce
operating costs.

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.

Benefits

- 90% reduction in lubricant
- 75% reduction in valve replacement
- Eliminates lube oil carry-over
- Reduces gas stream contamination
- Reduces your carbon footprint



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

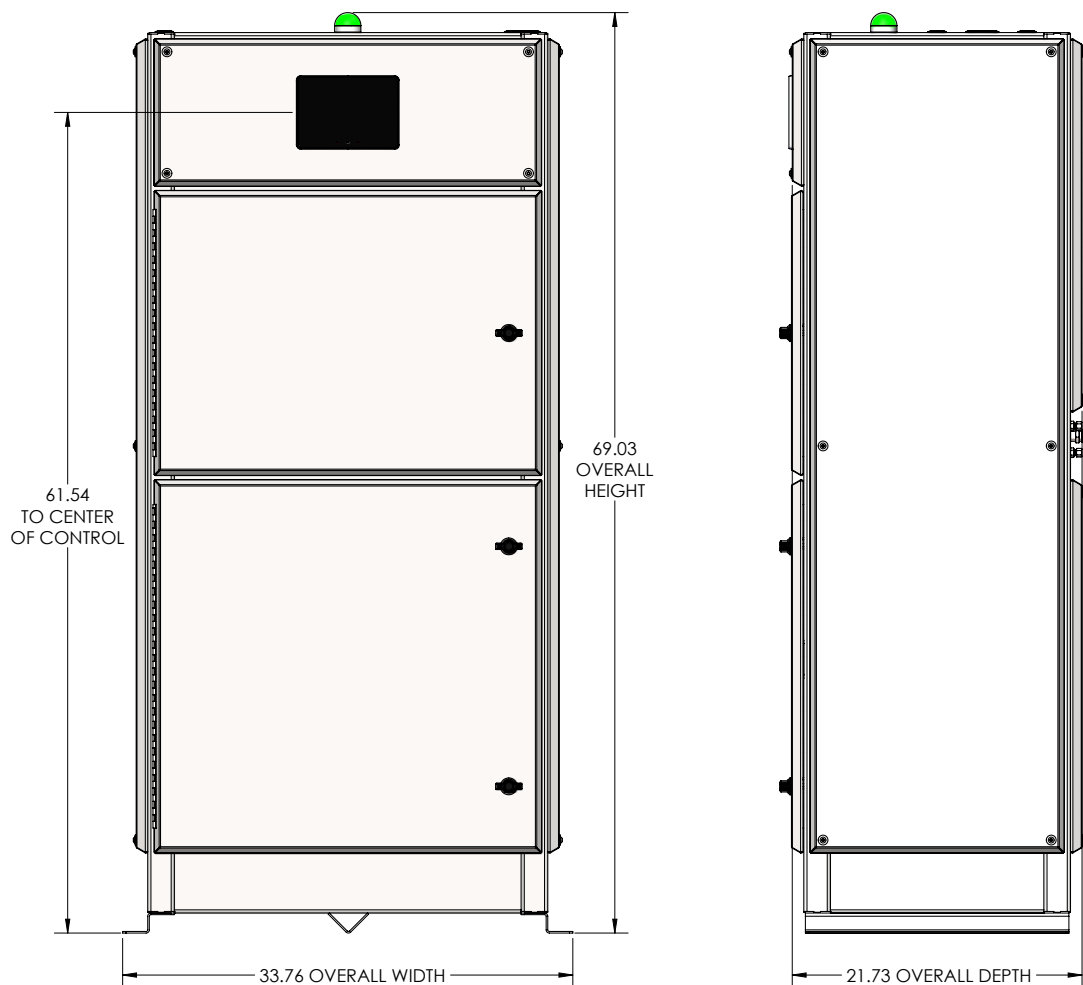
- First-of-its-kind – BiB (bag in box) delivery system
- End-to-end lube oil supply chain
- Standardized design for rapid cost-effective deployment
- Real-time operational reporting
- Automated rate optimization for variable conditions
- Complete, automated lubrication system contained in a durable cabinet – 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 Size** – 2 x 20 liter removable BIB cartridges
- **Filter Size** – 10 micron
- **High Pressure Relief Valve**
- **Up to 5000PSI pressure**
- **Corrosion resistance** – using stainless steel, nitride, anodized, or powder coated components

Application Info

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



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

- **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



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

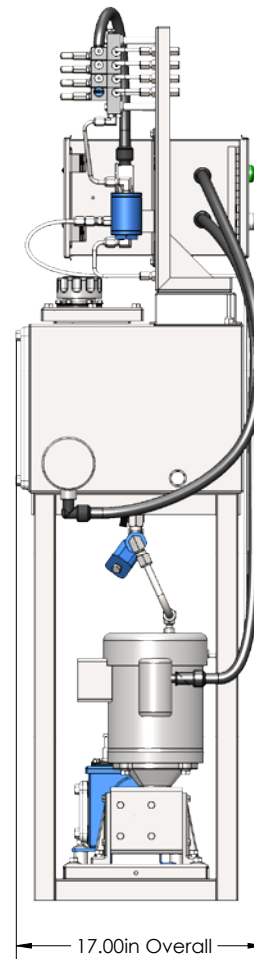
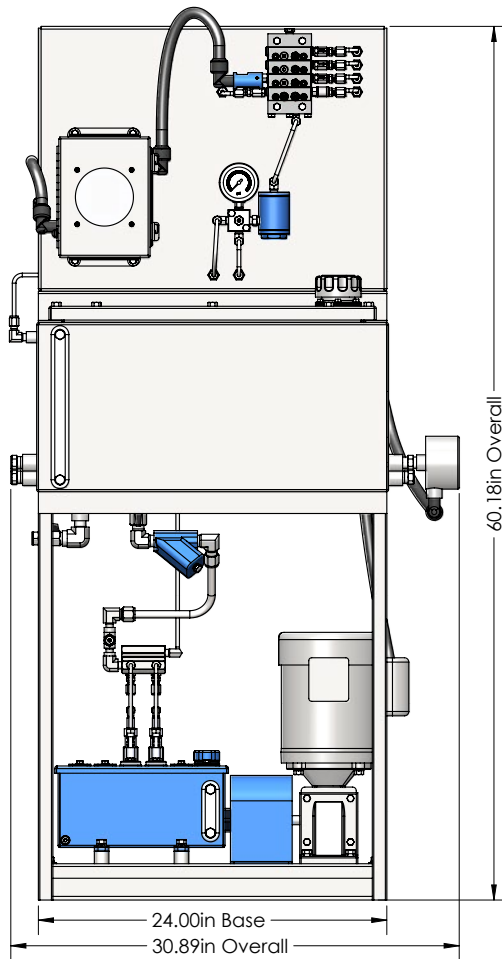


Industries

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.

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**



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, wastewater, and many other critical machinery applications.**

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.



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

OEM Replacement Systems

Optimized replacement lubrication systems that match OEM mounting specifications.

Gain the benefits of a modern, optimized, fail-safe lubrication system with a replacement that closely matches the existing system footprint.

- Matches your existing system footprint for easy installation and cost savings
- Locates key components on an accessible bracket to simplify preventative maintenance and troubleshooting
- Full featured, fail-safe lubrication systems with options for monitoring and no-flow alarm
- Optimized system design for maximum lubricant efficiency to reduce costs



OEM systems available for: Ariel, Ajax, Clark, Cooper, Dresser Rand, GE/Gemini, IR/Ingersol Rand, Joy, Siemens, Worthington, White Superior, and many others.

Custom Pump-to-point Systems

Simple and reliable, pump-to-point systems are a cost-effective solution to machinery lubrication.

Not every application requires a full-featured lubrication system, and not every budget can afford one. Sloan Lubrication Systems designs custom pump-to-point lubrication systems for the price-constrained operation with a less critical application.

Benefits

- Cost-effective lubricant delivery for less critical applications
- Simple design is easy to operate and maintain
- Custom footprints and mounting options allow drop-in replacement
- Corrosion resistant components for reliable operation
- SLS lubricator boxes are built with 11 gauge cold rolled seal with turned down lid to prevent corrosion
- Slow speed coupling for greater reliability and longer life

Industries

We have custom pump-to-point solutions for **oil and gas, refining, cement and aggregates, agriculture, food processing, wastewater**, and many other applications.



10 feed pump-to-point system with horizontal electric drive, high/low level switch, and level control



15 feed rear auxiliary shaft driven pump-to-point system with dual electric heaters, and shaft rotation alarm

Application Info

Sloan custom pump-to-point systems are used on new and existing machinery including: 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.

Options and Accessories

- 1-30 feed points (one pump for each point)
- Wide range of flow rates from 4 DPM to 30 DPM
- Multiple drive types – electric motor, auxiliary shaft, belt, ratchet & air
- 5, 15, & 30 gallon day tanks available
- Custom mounting bases
- Welded stands
- Multiple drive locations – left, right, high, low, rear, bottom – configurations to match most current and obsolete lubricator boxes
- Many reduction options to match shaft speed
- Customizable footprint to match existing equipment
- Automated level control
- Level alarm
- Internal heater
- Shaft rotation alarm



4 feed ratchet driven pump-to-point system



4 feed belt driven pump-to-point system

Pre-lube System

Protect your equipment by making sure there is lubricant present at start-up.

There are many situations where lubricant needs to be present on moving surfaces before equipment can safely operate. When the lubrication system is driven by an auxiliary shaft on the equipment, a separate system is necessary. Our Pre-lube System utilizes readily available pressurized air to deliver lubricant ahead of start-up to make sure there is no damage or excessive wear.



Features

- Air operated pump for simple, maintenance free operation
- Easy to adjust pressure regulator
- Options for automated operation
- Configurations available for multiple zones
- Delivers oil through existing lubrication system allowing operators to monitor exact volume delivered

Options

- **Size** 12W x 12H or 18W x 12H
- **Optional air operated pilot valve**
- **Optional electric solenoid operation**
- **Steel or stainless-steel fittings**

Proper pre-lube implementation

Our Pre-lube systems are designed to deliver a high-flow rate in a short period of time. It is possible to provide an excessive quantity of lubricant if it is left on too long, or in situations where multiple starts are required, and lubricant is applied each time. It is important to consider this when programming operation in control systems. Sloan Lubrication Systems recommends monitoring the volume of oil delivered and not delivering more after a set amount.

Oil Recovery System

The Oil Recovery System (ORS) is designed to automate the recovery and reuse or disposal of oil from distance piece and packing drains. In many cases, the recovered oil can be directly filtered and reused, eliminating a waste product stream. The ORS prevents the accidental discharge of oil out vent lines and reduces emissions where fuel gas is used to empty “blow pot” style collection systems.

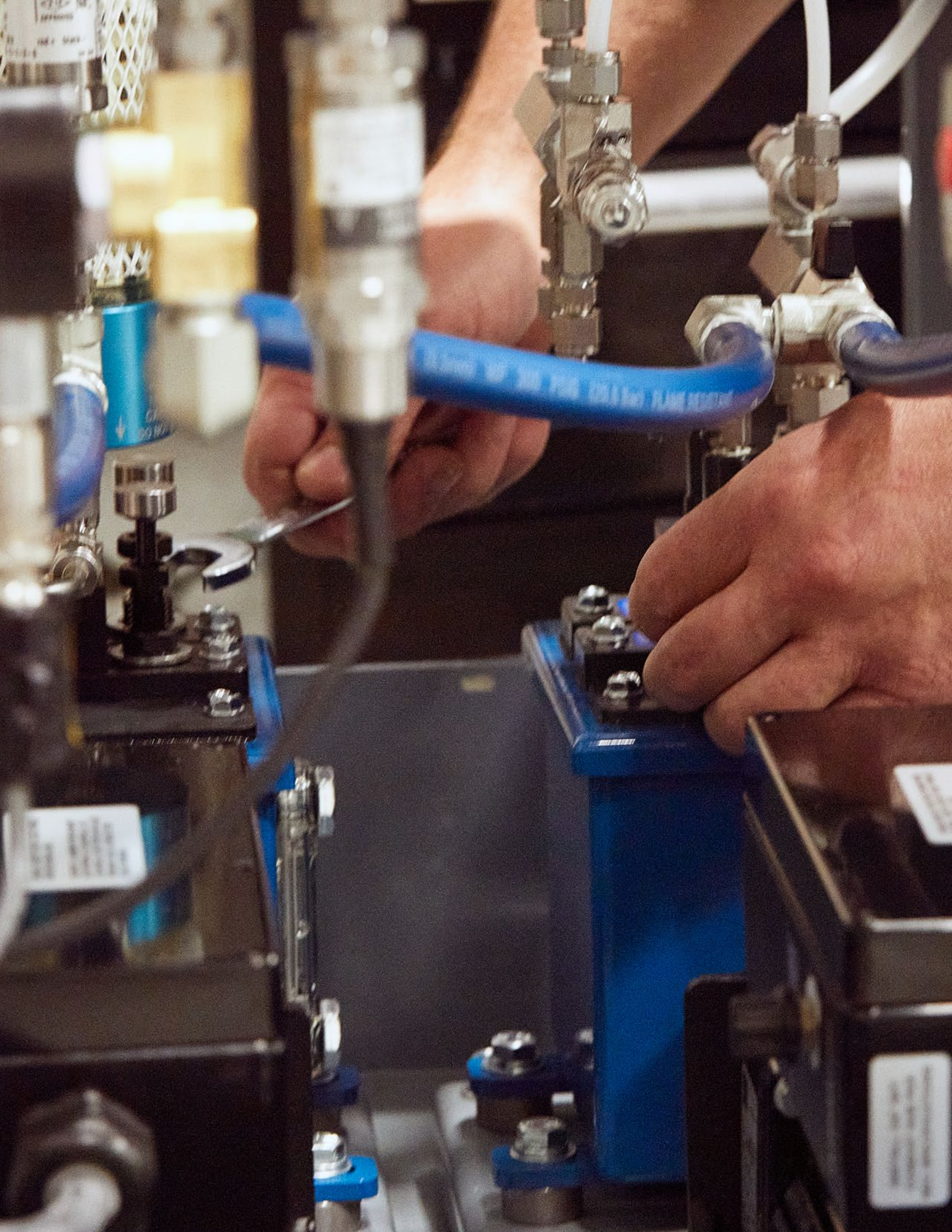
Features

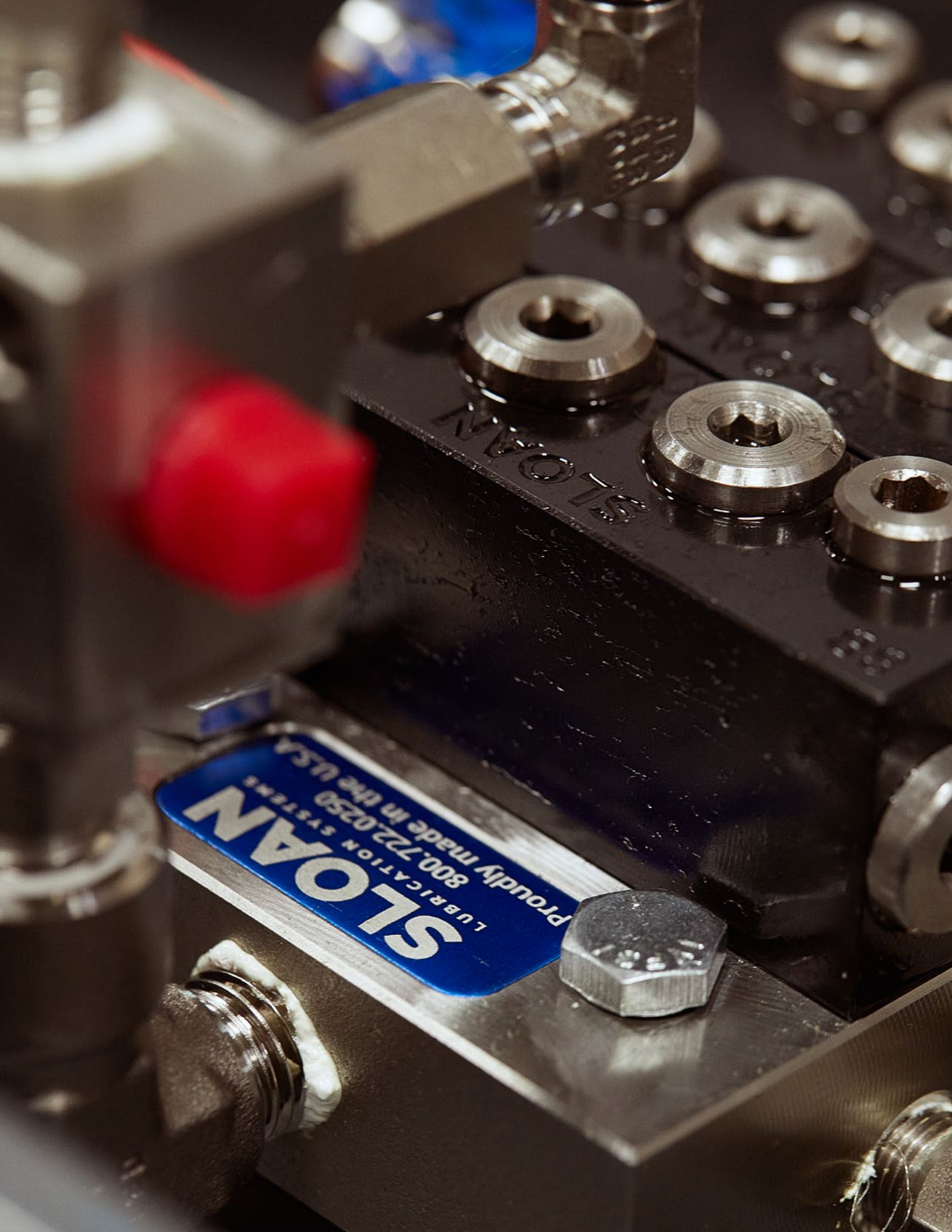
- Recovers oil from packing and distance piece drain lines
- Reuse oil by returning to supply, or send to existing waste tank
- 20-40% potential oil reuse on typical compressor packages
- Eliminates mistakes made when manually venting storage vessels
- Vent to atmosphere, VRU, or flare system
- Provision for high- and low-level float switches for alarms
- Pressure gauges on air/gas supply and filter
- All stainless hardware



Specifications

- 5-gallon tank capacity, powder coated inside and out
- Instrument gas or air operated, up to 300 PSI supply, integrated regulator
- Integrated float control in tank
- 3-micron water absorbing filter element
- 1/2" drain and large tank cleanout for servicing





SLOAN
LUBRICATION SYSTEMS
800.722.0250
Proudly made in the USA

COMPONENTS

Engineered for rugged,
dependable performance
in the most critical
applications.

Divider Blocks

Manufactured to the highest quality standards for precise, fail-safe lubricant delivery.

Precision machined with the best piston fit in the industry, our divider blocks are the heart of our lubrication systems. Designed specifically for critical applications and suitable for low-flow rates at high pressure, our divider blocks exceed the highest industry standards, reliably ensure optimal delivery of lubrication to downstream points, and guarantee fail-safe shutdown.



About Divider Blocks

Divider blocks provide series-progressive lubricant delivery. Through the action of progressive piston cycles, they divide the flow from a single pump or bank of pumps to multiple delivery points with pinpoint accuracy. Divider blocks provide fail-safe lubricant protection. If a single delivery point malfunctions, the block will not cycle, allowing the monitoring device to trigger a fail-safe shutdown. Divider blocks enable streamlined design for complex lubrication systems with multiple delivery points, allowing a single pump to do the work instead of requiring a single pump for each delivery point.

Divider Block Part Number Key

SB-D*-(#)(O)**-Additional Divider Sections (min 3-max 9)-(PI)-(C)-(TF)

- #** Section size (3, 6, 9, 12, 18, 24, 30)
- O** Outlet type - T(twin) or S(single)
- PI** Reset indicators by PSI (1=500, 2=1000, 3=1500, 4=2000, 5=2500, 6=3000, 7=3500, 8=4600, 9=5000)
- C** Check valves? (Y/N)
- TF** Tube fittings (1=Parker Steel, 2=Parker Stainless, 3=Swagelok, 4=Swagelok Stainless, 5=Parker CPI, 6=Parker CPI Stainless, 7= Parker Alok Stainless)

* DL for Lincoln bolt centers.

** Crossport Right (CPR), Left (CPL) and Both (CPB) available for each section
– Designate by adding code after divider size and type for each piston section needed.

*** SB Blocks shipped standard with 1/4" front facing elbow inlet, and 1/4" straight outlets.
Please indicate if you would like something different.

**** SB blocks available with Buna O-rings upon request.

The Sloan Advantage

1. Shipped fully assembled and 100% tested to save time and guarantee fail-safe operation
2. Unparalleled piston fit measured in the millionths (.000001) of an inch for reliable delivery at slow cycles and high back pressure
3. 100% precision machined mating surfaces for geometric integrity, and leak-proof operation
4. Corrosion resistant nitride plating divider sections and stainless-steel baseplates and hardware for dependable service in extreme conditions
5. Tapered countersunk mounting bolts eliminate bore distortion for long life and smooth piston cycling
6. Machined step-down at the end of each piston absorbs impact and prevents deformation of working surface, for reliability and extended lifetime
7. Integrated top and bottom baseplate reduce leak paths
8. Compatible with both O-ring and standard pipe fittings.
9. Integrated baseplate checks for redundant delivery protection



Divider Block Assembly and Components

Divider blocks can be designed and assembled for any application. Call us for custom configuration of divider blocks for your specific application needs.

SB Divider Sections		Displacement	
		in ³	cm ³
• SB-D-03T	Divider Section 3T	.003	(.049)
• SB-D-06T	Divider Section 6T	.006	(.098)
• SB-D-09T	Divider Section 9T	.009	(.147)
• SB-D-12T	Divider Section 12T	.012	(.197)
• SB-D-18T	Divider Section 18T	.018	(.295)
• SB-D-24T	Divider Section 24T	.024	(.393)
• SB-D-30T	Divider Section 30T	.030	(.492)

NOTE: All Divider Sections are also available with Single Outlet

T Designates Twin Outlets

S Designates a Single Outlet

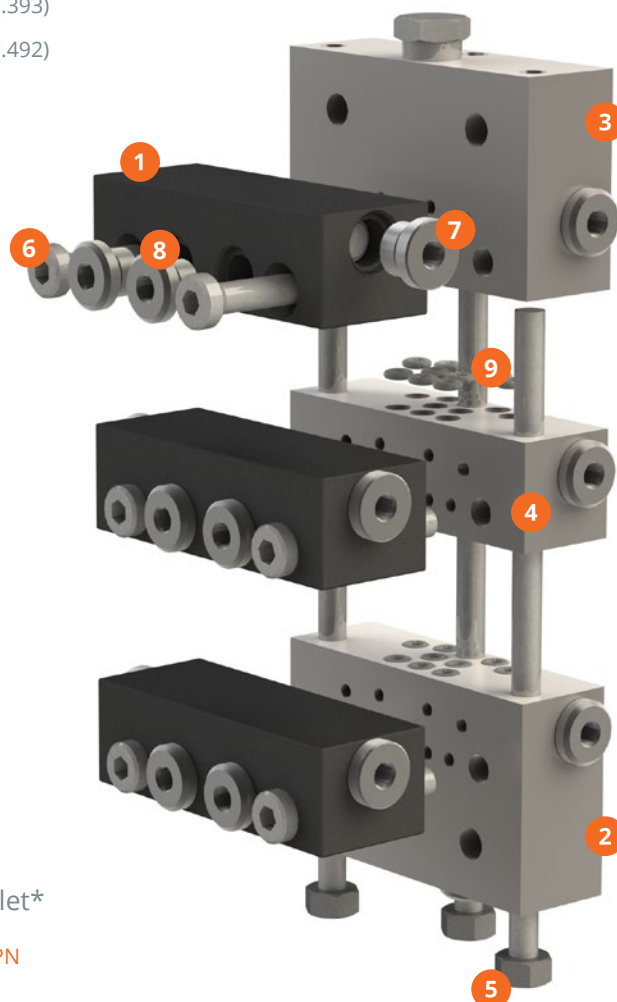
1. Divider Section – See “Divider Section PNs” Above
2. SLS-D-Bottom – Baseplate bottom section w/inlet*
3. SLS-D-Top – Baseplate top section w/inlet*
4. SLS-D-Baseplate – Intermediate baseplate section
5. SLS-D-T3 – Tie rod, 3 section (3-9 sections available)**
6. SB-D-sectionBolt – Divider section bolt
7. SB-D-SP – Divider section side plug
8. SB-D-FP – Divider section face plug
9. SB-O-V006 – Intermediate O-ring (Viton) ***

Not Pictured: SLS-D-Top-NI – Baseplate top section/ no inlet*

*Standard SLS/Trabon bolt centers – for Lincoln/Ariel add “L” after “D” in PN

** To specify length of tie rod, indicate section count (3-9) after “T” in PN

*** For Buna O-ring change “V” to “B” in PN



Divider Block Accessories

CrossPorts – Crossports install between a divider section and baseplate and divert the flow from the designated outlet to the next outlet in series. This enables flow ratios not available with individual sections. Each crossport comes with two extended mounting screws.

PNs: SLS-D-Crossportright, SLS-D-Crossportleft, SLS-D-Crossportboth



Resettable pin indicators – These devices are often called “tattle tails”. They indicate whether a pressure threshold has been exceeded inside the divider block, which is often a sign that a problem needs to be addressed.



Cycle Indicator – Our SBCI cycle indicator uses a patented, spring-free design to visually indicate each divider block cycle. Each time the divider block completes a cycle, the gold ring magnet will as well.

PN – SB-D-CI



Magnetic Proximity Switch – Our magnetic proximity switch utilizes the same spring-free design as our cycle indicator to signal each cycle to the system monitor.

PN – SB-D-MPS



Check Valves – Our stainless steel single poppet check valve installs into the baseplate of each divider block outlet and combines with the integrated baseplate check to create a redundant double poppet seal. (Also available with Buna O-Rings)

PN – SB-V-C-Outlet



Balancing Valves – We engineer our systems to balance differential pressures across divider block, but not all applications allow for this. When pressure differentials exceed 1000 PSI we utilize balancing valves to even out the pressure.

PN SB-V-Balancing – Pressure (1500 or 2500)



Inlet Manifold with Pointer Gauge – SLS Inlet Manifold Assembly with a 3000 or 5000 PSI Pointer Gauge, Purge Point, and Swagelok SS Fittings.

PN – SLS-D-inletmanifold



Lubricator Boxes

Engineered for rugged, dependable performance in the most critical applications.

Engineered for rugged, dependable performance in the most critical applications. A wide range of sizes, gear ratios, OEM mounting options, and customization available, make the SLS box lubricator the choice for your application.

Product Details

- 11 gauge cold rolled laser cut steel for accurate fit and extreme durability
- Powder-coated inside and out to prevent corrosion
- Black nitride cams and shafts for corrosion and wear resistance
- Radial ball bearings extend shaft life
- 11 gauge lid with overhung lip creates a tight, weatherproof seal to keep water out



Compressor OEM Manufacturers

Ariel Corporation, Cooper Bessemer, Clark, Worthington, Dresser Rand, Ingersoll Rand, Pennsylvania Process Compressor, Cooper Machinery Services, Neuman & Esser, Burkhardt Compression, GE, Aspro, Kwangshin, Ro-Flo, Fuller

These popular models and more:

GMV/GMW, W330, KVS, KVR, LM6, Quad, V275, V250, Superior, Gemini, RDS, CIP, Joy, CFA

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.

Operating Conditions

Maximum working pressure: 10,000 psi

Maximum input speed: 1,800 rpm (90:1 ratio models)

Maximum cam shaft speed: 60 rpm



SLS-4J-LH-GH-SUP replaces obsolete models with gearhead reducers that are prone to failure



SLS-4A-RE – ratchet driven lubricator



SLS-4J-RB-Ajax with right bottom input shaft and custom mounting for an Ajax

Manufacturer		Volume		Gearing		Input	
SLS	Sloan	2	2 Pint	A	Ratchet	R	Rear
		3	3 Pint	B	1:1	LE	Left End
		4	4 Pint	C	2:5:1	RE	Right End
		8	8 Pint	D	6.25:1	LF	Left Front
		12	12 Pint	E	25:1	RF	Right Front
		16	16 Pint	F	30:1	B	Bottom
		20	20 Pint	G	36:1	RB	Right Bottom
		24	24 Pint	H	15:1	LB	Left Bottom
				I	10:1	CB	Center Bottom
				J	60:1	RR	Right Rear
				K	75:1	LR	Left Rear
				L	86:1	CR	Center Rear
				M	90:1	DE	Double End
				N	150:1	DB	Double Bottom
				DI	1:1.625 Increaser	GH	Gear Head

Lube Box Part Number Key

SLS-(V)-(G)-(I)-(OEM)- (#)-(PT)-(PS)

V	Volume
G	Gearing
I	Input
OEM	OEM Mounting Type*
#	Number of Pumps
PT	Pump Type
PS	Pump Size

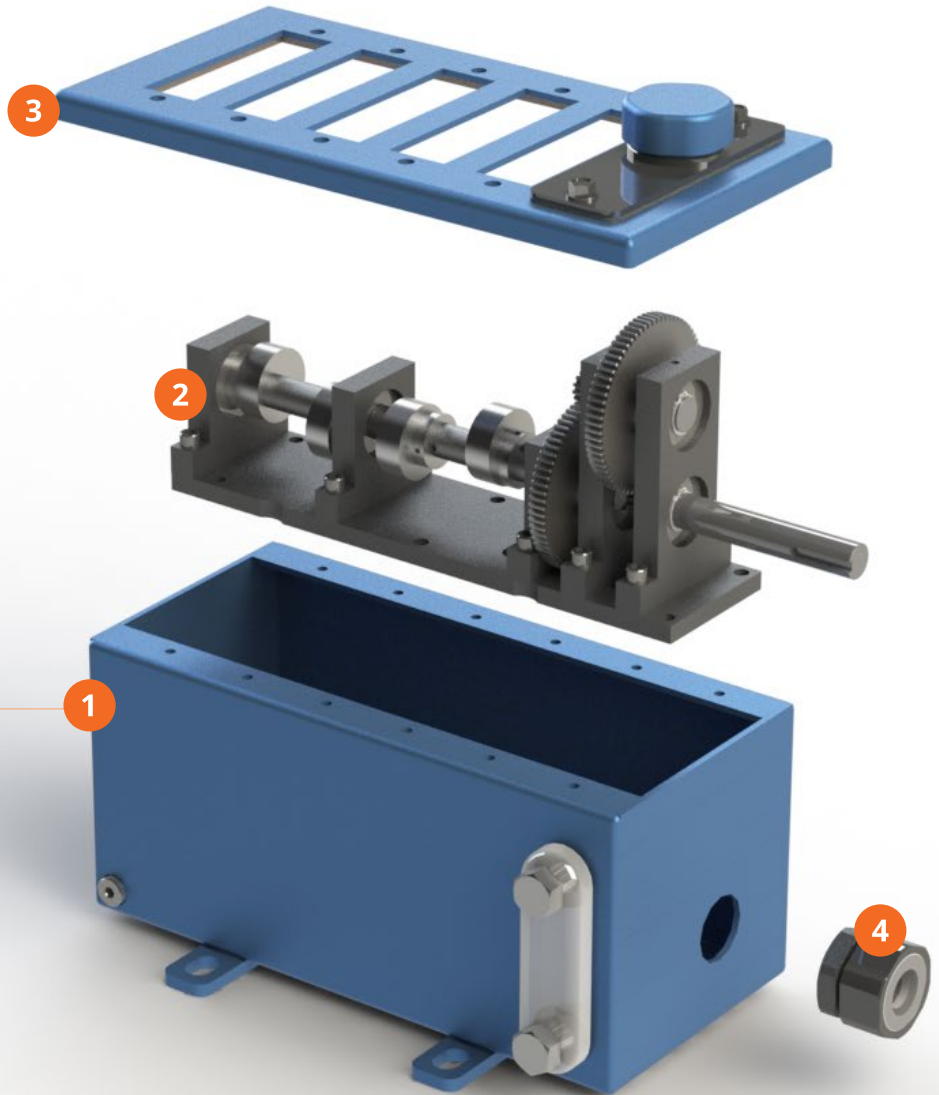
★ Some OEM lubricators require a specific type of mount. If that is the case, the OEM mounting type is indicated in the part number. If you do not see your compressor here, it likely uses a standard base.

Lubricator Box Components

1. **11 gauge cold rolled steel** for torsional rigidity, and powder-coated inside and out for corrosion resistance
2. **Drop-in drive assembly** with a black nitride coating for long life, corrosion resistance, and simple maintenance

Lubricator Box Configurator

OEM Mounting Type*		# of Pumps	Pump Type		Pump Size	
RDS	Ingersoll Rand RDS	# of Pumps	V	Vacuum	1	3/16
Gemini	GE Gemini		P	Pressurized	2	1/4
CIP	CIP				3	3/8
ESH	Ingersoll Rand ESH					
JWB	Joy					
CFA	GE CFA					
SUP	Superior					
Ajax	Ajax					
UN	Union					
AS	Angelus Seamer					
KOC	Dresser Rand KOC					
EC	Worthington Cub					
BDC	Worthington BDC					



- 3. 11 gauge laser cut steel lid** with an overhung drop lip prevents contamination and is fully powder-coated
- 4. High permanence radial ball bearings**, taper bearings and needle bearings for reduced wear and long life

Lubricator Pumps

Precision engineered for dependable performance in the most adverse conditions.

Sloan Lubrication Systems' high-quality lubricator pumps are designed to deliver dependable performance in a wide range of applications. Our pumps are offered in three piston sizes to meet the volume requirements of any application.

Pressurized Pump

Our pressurized pump is designed specifically for use with our automated fail-safe lubrication systems. It is designed for use with an overhead supply tank or pressurized header supply for maximum reliability in systems that have electronic lubrication monitoring.

Features

- Fits box lubricators SLS, CPI / Premier, Lincoln / McCord, Mega
- Standard mounting bolt centers (4.406")
- Needle roller bearing for reduced friction
- High-performance piston seal ensures no leak by
- Corrosion-resistant nitriding—fully coated inside and out
- Hardened stainless steel piston for dependable performance
- Spring-loaded PTFE seal poppets on suction and discharge
- Self-priming pump with priming port for easy startup



Part Breakdown

SLS - P - (O) - (S)
1 2

1. (O) Oil Supply

P - Pressurized (External) Supply

2. (S) Piston Size

1 - 3/16 inch Piston

2 - 1/4 inch Piston

3 - 3/8 inch Piston

Specifications

- **Maximum speed** 60 rpm
- **3/16th" piston** 10,000 PSI max
- **1/4" piston** 8,000 PSI max
- **3/8th" piston** 3,500 PSI max

Vacuum Pump

Our vacuum pump is designed for simple pump-to-point systems. It features a sight glass with an extra wide viewing area which is used to count the number of drops delivered per minute. SLS vacuum pumps are built to the same exacting standards as our pressurized pumps and are designed for dependable service in challenging conditions.

Features

- Fits box lubricators SLS, CPI / Premier, Lincoln / McCord, Mega
- Standard mounting bolt centers (4.406")
- Needle roller bearing for reduced friction
- High-performance piston seal ensures no leak by
- Corrosion-resistant nitriding—fully coated inside and out
- Hardened stainless steel piston for dependable performance
- Extra-wide sight glass window for easy drop viewing
- Spring-loaded PTFE seal poppets on suction and discharge
- Self-priming pump with priming port for easy startup

Specifications

- | | |
|------------------------|----------------|
| • Maximum speed | 60 rpm |
| • 3/16" piston | 10,000 PSI max |
| • 1/4" piston | 8,000 PSI max |
| • 3/8" piston | 3,500 PSI max |



Part Breakdown

SLS - P - (O) - (S)

- 1. (O) Oil Supply**
V - Vacuum (Box Suction) Supply
- 2. (S) Piston Size**
1 - 3/16 inch Piston
2 - 1/4 inch Piston
3 - 3/8 inch Piston

Wizard Monitor

A dedicated lubrication system monitor is the best way to view and track lubricant delivery and guarantee that your equipment is protected.

Our Wizard Monitor provides cutting edge delivery protection and monitoring for up to four lubrication zones. The Wizard has a bright, easy-to-use touch screen interface, integrates seamlessly with your plant control systems, and provides real-time flow rate information and rate data logs for later analysis.

Features and Benefits

- Tracks and displays total oil delivery for up to four zones
- Simple programming and setup with 3 ½" color LCD touchscreen
- Compatible with all PLC systems via MODBUS interface
- Continuous log file recording with USB export
- Programmable zone warning and zone failure alarm
- Enables automatic fail-safe shutdown
- Options available for all area classifications



Specifications

- **Power supply**
90-264 VAC, 47-63 Hz / 12-48 VDC 15 W max
- **Inputs**
4 Zone proximity switches (low voltage dry contact)
1 Total display switch
1 Arm/disarm circuit
- **Outputs**
4 Zone alarm relays 250 V max 5A (NO) / 3A (NC)
1 Power fail relay 250 V max 5A (NO) / 3A (NC)
- **Communication**
1 RS485 Modbus RTU
1 10 / 100 Ethernet (Web server + MODBUS TCP/IP)
- **Storage Onboard**
512Mb; minimum 2 years logging 1 entry per minute
External USB – CSV file format

Part #s

SLS-MO-Wizard-JIC - Wizard monitor with push button reset switch

SLS-MO-Wizard-XP - Wizard monitor with explosion proof reset switch

SLS-MO-Wizard-JIC-Assembly - Wizard monitor in assembled JIC box with push button reset switch

SLS-MO-Wizard-XP-Assembly - Wizard monitor in assembled XP box with XP reset switch

Magnetic Proximity Switch

Reliably signal divider block cycles to your monitor or PLC for accurate rate monitoring. The magnetic proximity switch is a crucial component of your fail-safe monitoring system. The MPS detects each divider block cycle and sends a signal to your Wizard Monitor or PLC control system. Our MPS has a patented spring-free operation for peerless, problem-free reliability.

Features

- Anodized aluminum body and stainless steel wetted parts
- Spring-free design eliminates wear parts
- Fully enclosed design eliminates leak paths
- Removable magnetically captive pin for easy cleaning and operation verification
- Fully enclosed reed switch and PVC jacketed cable
- Easily separable magnet housing
- Normally closed switch design for simplified troubleshooting and circuit verification
- Precision-manufactured reed switch designed for millions of closures at low voltage
- Follows piston travel and reports each block cycle to the Wizard Monitor
- US Patent 8575921



Part # - SB-D-MPS

Specifications

- Switching voltage (DC or peak AC) 200V
- Switching current (DC or peak AC) 0.5A
- Carry current (DC or peak AC) 1.25A
- Static resistance (@0.5, 10mA) 200
- Insulation resistance (@100V) 1010
- Sensor resistance (@40% overdrive) 480 mOhm

DNFT

The DNFT is a simple, compact, and reliable monitoring device that provides real-time, fail-safe protection for your critical machinery. The DNFT installs directly to your divider block and provides single zone, fail-safe protection via a simple open/closed relay.

Features and Benefits

- Simple and reliable fail-safe protection
- Battery powered for easy installation – field replaceable
- Compatible with divider block systems
- Flashing light indicates each cycle
- Integrates with PLC controls



Specifications

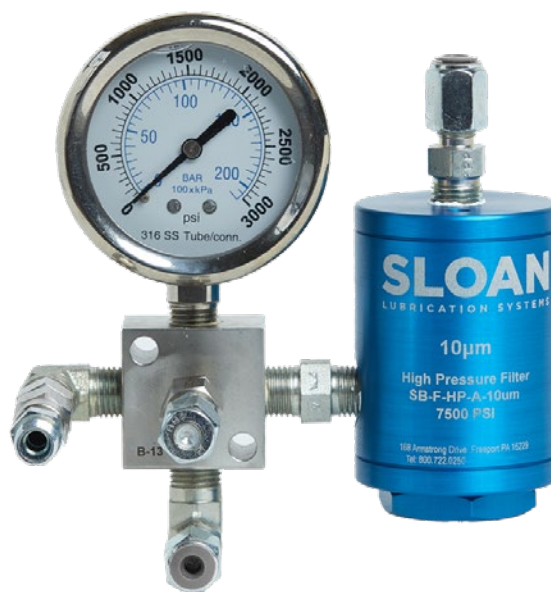
- Replacement Batt PN: SB-MO-DNFT-Battery
- Epoxy Encapsulated – UL Listed EL-Cast VFR 641
- Switch Rating: 2.5VA/240 VDC
- Alarm range: Many options available
- PRX Rating – 2.5VA/200 VDC MAX/0.5A
- Temperature Range -40 – 131F (-40 to 55C)

Gauge Assembly

Pressure indication, filtration, high-pressure relief and a purge point all in one simple, easy-to-use assembly.

Features

- 10, 25, 40, 90 and 150 micron filter elements available
- Available with a rupture disk relief assembly or a high-pressure relief valve to any set pressure required
- Sintered bronze element protects divider block's extremely tight tolerance pistons
- Filter element allows easy replacement without disturbing tubing
- Vertical installation of element parts protects gaskets upon installation
- Purge point with a terminal check valve used for high-volume purging of the divider block and lubrication lines



Part Breakdown

SLS - GA - (TF) - (GP) - (RP)(RT) - (FS) - (SS) - (PF) - (R)

1 2 3 4 5 6 7 8

1. (TF) Tube Fitting

PK1 - Parker Steel
PK2 - Parker Stainless Steel
SW1 - Swagelok Steel
SW2 - Swagelok Stainless Steel

2. (GP) Gauge Pressure

1000 - 1000 PSI
3000 - 3000 PSI
5000 - 5000 PSI

3. (RP) Relief Pressure

Varies per device

Rupture - 1450, 2950, 5000

Relief Valve - 1500, 2900, 5000, 6000

POPR - 3500, 5500

4. (RT) Relief Type

Blank - PSI Rupture Disc

RV - Relief Valve

PR - POPR Valve

5. (FS) Filter Size

10 - 10 Micron

25 - 25 Micron

40 - 40 Micron

90 - 90 Micron

6. (SS) SS Adder

Blank - Standard aluminum filter housing

SS - Stainless steel filter housing

7. (PF) Pipe Fitting Type

1 - Steel

2 - Stainless Steel

8. (R) Rupture Tubing Type

Blank - Clear plastic rupture tube

T1 - .035 wall stainless tubing

T2 - .035 wall seamless stainless tubing

T3 - .065 wall stainless seamless tubing

Rupture Relief Assembly

Rupture disks are a simple way of protecting your lubrication system and the equipment it lubricates. When something prevents your divider block from cycling properly, it is designed to deadhead, causing back pressure that will burst the disk. This will divert flow from the pump back to supply and trigger a fail-safe shutdown. Our rupture relief assembly includes a clear tube that functions as a sight gauge.

Features

- Simple to install
- 100% verification of every over-pressure event
- Stainless steel construction
- Multiple burst pressures available



High-Pressure Relief Valve

Our high-pressure relief valve easily replaces our rupture relief assembly in circumstance where rupture relief is not required. The function is like that of rupture relief, except this valve will open at the set pressure and close again when the pressure is released. This can allow the divider block to clear a minor obstruction without shutting down the compressor.

Features

- Stainless steel construction
- Easy to install
- No rupture disks to replace
- Multiple cracking pressures available



Filtration Components

Protect your equipment from supply contamination for reliability and long life.

High-Pressure Filter and Filter Element

Our high-pressure filters provide your divider blocks with an improved level of protection from particulate contamination. We offer our filters in stainless or aluminum, assembled with sintered bronze element kits, and also sell the element kits separately for yearly replacement.



Features

- Made from durable anodized aluminum or stainless steel
- Vertical orientation for easy filter changes without the need to disconnect tubing
- Sintered bronze element available in 10, 25, 40, 90 and 150 micron
- Up to 7500 PSI max working pressure

Part Breakdowns

SB-F-HP-A-(10, 25, 40, 90, 150)

- Anodized aluminum filter with element

SB-F-HP-SS-(10, 25, 40, 90, 150)

- Stainless Steel filter with element

SB-F-HP-K-(10, 25, 40, 90, 150)

- Element kit with springs, O-ring and gasket

Air/Water Trap

Protect your lubrication system from water and air contamination. Our air/water trap filters out this damaging type of lubricant supply contamination, ensuring reliable operation and long life.

Features

- 1/8 inch female NPT bleed port top with installed valve
- Anodized aluminum for superior corrosion resistance
- 1/4 inch female NPT inlet and outlet
- Pyrex Tube – handles all oil types
- Viton O-rings
- Pressure relief
- 125 PSI Max pressure

Part

SLS-AirTrap



Spin-on Filter

Our custom lubrication systems can be designed to utilize an existing header supply. In this case, it is important to knock contaminants down to a level that won't damage your lubrication system, which has components that are typically of a higher tolerance than the rest of the process. Our spin-on filters provide the high volume, bulk filtration that your system needs to operate reliably.



Features

- Durable cast aluminum housing
- Delta P gauges to monitor filter life
- Easy to change spin on filter element
- Purge point with check valve
- Max working pressure 250 PSI
- 3 Micron element, others available

Part #

SLS-F-SO-3um-SW-2-2

- Filter with element

**SLS-F-SO-3um,
SLS-F-SO-E-10um,
SLS-F-SO-E-25um,
SLS-F-SO-E-3um-AQ**

- Replacement element

Desiccant Breather

Prevent water contamination caused by condensation in your vented supply tank. This is a common problem in humid environments. Our desiccant breather removes moisture from the air before it passes through the supply vent.



Features

- Self-contained and easily replaceable desiccant cartridge
- Changes color when depleted
- Temp range: -20 to 200 F (-28 to 93 C)

Part #

SLS-TA-Desiccant

Y-Strainer

Our Y-Strainer prevents debris that can accumulate in a supply tank over time from entering the supply line to lubrication pumps, protecting them from damage.



Features

- Simple, effective and easy to maintain
- Easily replaceable mesh screens
- Available in steel or stainless

Part #

SB-S-YStrainer-1/2FPT

Single Poppet Check Valve

Part # **SB-V-C-Outlet**

- 1/8 inch MPT x 1/8 inch FPT check
- Stainless steel
- Soft-seat poppet design
- Maintains divider integrity
- 400 °F maximum temperature



Part # **SB-V-C-Terminal**

- 1/8 inch FPT x 1/8 inch MPT check

Compact Size: 1-1/8 inches long for space-saving applications

- Power Cylinders
- Rotary Vane Compressors
- Vacuum Pumps
- Material Handling Equipment

Details

- | | |
|---------------------------|-----------------------------------|
| • Inlet | 1/8 inch FPT |
| • Outlet | 1/8 inch male NPT or 1/8 inch NPT |
| • Material | 303 Stainless Steel |
| • Working Pressure | 8,000 psi |

Omni-Check Valve

Part # **SB-V-C-Omni**

- Omni-check soft-seat double-poppet check valve for increased reliability
- Provides positive sealing under all conditions
- 400 °F maximum temperature
- Available with any fitting combination



NOTE: Stainless steel ball checks are identified by a groove around the body; Buna checks are engraved with a "B".

Options

- Hard-seat stainless steel balls (instead of soft-seat poppets)
- Buna seals for ammonia service (Buna is limited to 250 °F. Please specify service and seat type when ordering.)

Details

- | | |
|---------------------------|---------------------|
| • Inlet | 1/4 inch FPT |
| • Outlet | 1/4 inch NPSF |
| • Material | 303 Stainless Steel |
| • Working Pressure | 8,000 psi |

Omni Gas Trap

Part # **SB-V-C-T-4** (With 1/4 inch male NPT stem)

Part # **SB-V-C-T-2** (With 1/8 inch male NPT stem)

- Eliminates the possibility of gas passing back into your lube lines, guaranteeing there is always a pool of oil on the “outside” of a check valve
- Gas cushion reduces pulsation up the lubrication lines, prolonging check valve life
- Remedies outlet check valve failure problems and gas blowback issues
- Helps check valves perform optimally
- Provides added protection of your oil delivery

Details

- **Inlet** 1/4 inch female NPT
- **Outlet** 1/4 inch male NPT or 1/8 inch male NPT
- **Material** Stainless Steel
- **Working Pressure** 8,000 psi

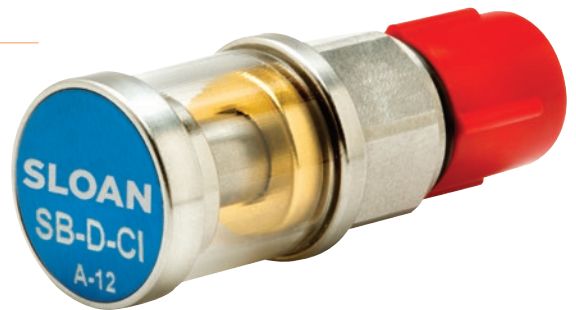


Magnetic Cycle Indicator

Product Details

Part # **SB-D-CI**

- All stainless steel construction
- Gold disc movement shows piston motion and location
- Instant visual verification that blocks are cycling and at what interval
- Spring-free design means no wear parts
- Fully enclosed — no possible leak paths
- Removable magnetically captive pin for easy cleaning and operation verification
- Confirms correct proximity switch operation
- Verify flow rates displayed on system monitors
- US Patent 8575921

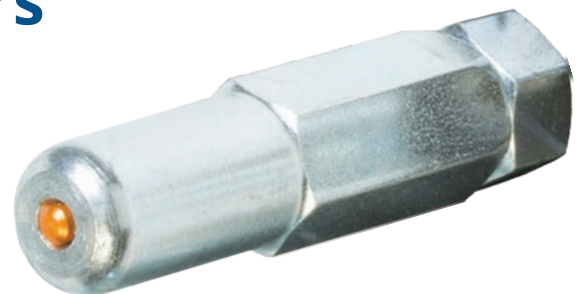


Resettable Fault Indicators

Product Details

Part # **SB-D-PI**

- Spring-actuated
- Resettable and reusable
- No discs to replace



Color-coded by Pressure

- | | |
|----------------------|--|
| • SB-D-PI500 | Pin indicator, resettable 500 psi /Blue |
| • SB-D-PI1000 | Pin indicator, resettable 1,000 psi/Yellow |
| • SB-D-PI1500 | Pin indicator, resettable 1,500 psi/Red |
| • SB-D-PI2000 | Pin indicator, resettable 2,000 psi/Orange |
| • SB-D-PI2500 | Pin indicator, resettable 2,500 psi/Purple |
| • SB-D-PI3000 | Pin indicator, resettable 3,000 psi/Brown |
| • SB-D-PI3500 | Pin indicator, resettable 3,500 psi/Grey |



Shawn

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Test and Purge Pumps

Preventative maintenance, testing and troubleshooting made easy.

Regular testing and maintenance is critical to the continued fail-safe operation of your lubrication system. Our test and purge pumps are a must have accessory to assist in your preventive maintenance and troubleshooting.

Air Operated Test Stand

Our convenient, lightweight and portable test stand utilizes readily available pressurized air to operate a hydraulic pump capable of quickly purging and pressurizing divider blocks during testing. Testing the ability of divider to blocks hold pressure is the best way to guarantee that they are still able to deliver fail-safe protection for your lubricated equipment.

Features

- Compact, lightweight, and portable
- Includes a divider block baseplate and test cap for testing individual sections
- High-pressure filter and gauge
- Drip tray and side guards direct lubricant back to the reservoir
- Much faster than testing with a hand pump



Part #

SLS-Teststand

Divider Block Testing

Testing is performed in two steps. First, verify that the cycle pressure of the block is below 500 PSI by slowly pumping fluid through the block. The pressure of each piston cycle can be seen when the gauge spikes ahead of a drop coming out of the corresponding outlet. Second, each outlet needs to be blocked, one at a time, with the provided test cap. Use the pump to increase the pressure to 3000 PSI. If the pressure drops more than 500 PSI in one minute, the section needs to be replaced.

Specifications

- **Max operating pressure** - 10,000 PSI
- **Gauge PSI** - 5,000 PSI
- **Stand material** - Lightweight powder coated aluminum with cold rolled steel divider bracket
- **Reservoir volume** - 2 gallons

Air operated purge pump

Our rugged, portable air operated purge pump is a must for performing lubrication system maintenance. It enables operators to rapidly purge air out of lubricant lines after performing maintenance.

Part # - **SLS-Airpump**

Features

- Air operated hydraulic pump
- Capable of high-volume and high-pressure operation
- 5000 PSI gauge
- Includes a 10-foot flexible hose

Specifications

- Max working pressure - 10,000 PSI
- Reservoir volume - 2 gallons



Hand operated purge pump

Our simple, hand-held purge pump is capable of purging a single lubricant delivery line or a full system. It is perfect for travel, field operations, and quick maintenance and troubleshooting.

Part # - **SLS-Purgepump-3000, SLS-Purgepump-5000**

Features

- Easy to see oil level sight gauge
- 36" braided steel flex hose
- Parker and Swagelok 1/4" OD fittings

Specifications

- Cast steel head, machined and anodized body and glass sightglass for wide ranging material compatibility
- Max working pressure - 3000 or 5000 PSI
- Reservoir volume - 1 pint (.4L)



SpaceClip

Simple, stress-free tubing management for any application.

Tubing installation is time consuming and expensive. Save time and save space with SpaceClip™, the simple to use, clip on tube spacing and support system. SpaceClip serves as an extra set of hands during installation by keeping tubes in place and evenly spaced. Once fully installed, SpaceClip is a permanent durable anchor that minimizes vibration and maximizes the longevity of your installation. SpaceClip allows for simple removal and reinstallation of your tubing during service, and can be stacked vertically to provide organizational benefits that are out of this world.

Benefits of SpaceClip

- Save Space, Time and Money
- Easy Installation
- Absorbs Vibration
- Maintains Proper Tube Spacing
- Mounts to Any Flat Surface
- Increased Tubing Lifespan



US pat 2019/0323632 A1 | International Patent Pending

Installation

SpaceClip is available for ¼, ⅜, or ½ inch tubing. Custom sizes available upon request.

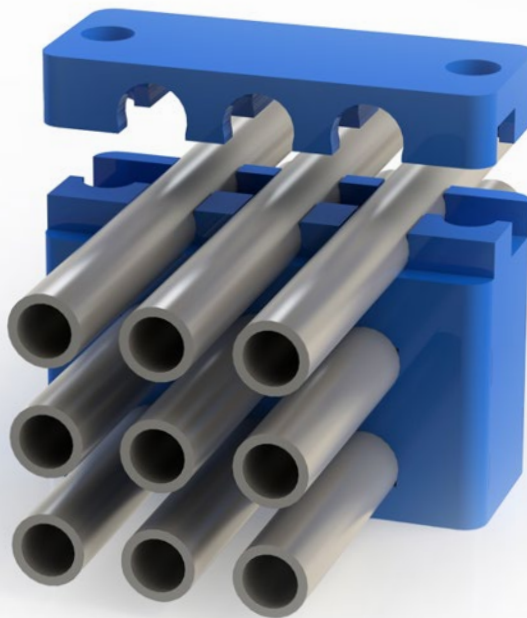
SpaceClip can be used as a permanent clip on spacer without mounting hardware, or to prevent vibration if mounted using ¼" hardware.

SpaceClip is available in up to 12-line configurations and multiple clips can be stacked to condense all tubing into one run.

SpaceTrack™ tubing track, a laser cut, powder-coated mounting system compatible with SpaceClip is available.

Material: Nylon
(other materials upon request)

Temperature Rating: -20° – 260°F



SpaceClip Part Breakdown

SpaceClip - (S) - (#) - (B)

1 2 3

1. (S) Tubing Size

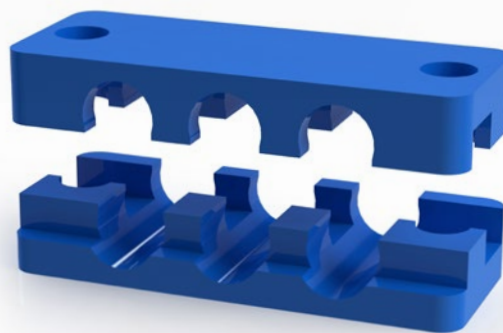
- 4 - 0.25 in.
- 6 - 0.375 in.
- 8 - 0.50 in.

2. (#) Number of Tubes

- 1 - 6, 8, 10, 12

3. (B) Number of Bolts

- NB** - No Bolts
- 1B** - 1 Bolt
- 2B** - 2 Bolts



Our systems, components and solutions are custom designed for your application. Our support team will work with you to engineer or deliver the product that best fits your application.

To assist in this process, please provide as much of this information as you can.

- Equipment type
- Equipment sizing / number of delivery points and rates (if available – if not, contact us and we can help calculate the volume of lubricant required)
- Number of lubrication zones
- Area classification / ratings / voltage requirements
- Installation environment
- Controls / automation details
- Photos of existing equipment (aids significantly in estimating installation)

THE **FIRST** NAME IN LUBRICATION

Speak with a specialist about your application or part needs today at **Sales@SloanLubrication.com** or **800-722-0250**.

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