THE LAST NAME IN LUBRICATION SYSTEMS
OUR MISSION?
“To never fail to exceed all customer expectations in providing the absolute highest quality of product, service and delivery available in the lubrication industry.”

Sloan Lubrication puts extraordinary attention, effort, and expertise into designing and applying the optimal components for the most accurate, dependable, and protected total lubrication solutions for your reciprocating and rotary equipment. We have been in business since 1922, and the fourth Sloan generation currently manages our business!

Sloan Lubrication designs and custom-builds our systems using only the highest-quality components, manufactured in our own facility or by closely controlled local suppliers. Every component and sub-assembly is 100% inspected and tested to ensure that it will perform flawlessly.

Our installation experts travel to your site, install your custom system, and fully test every aspect of operation. We conduct a training session for you and your personnel on your equipment, to ensure complete understanding of your new lubrication system and its processes. And we offer in-depth maintenance on all components, to ensure optimal operation for years to come.

Our commitment to constant innovation drives us to develop new technologies in monitors, terminal check valves, pumps, filters, and divider blocks, and we constantly evaluate other products to be sure we stay one step ahead of our competitors.

Sloan Lubrication’s obsessive attention to detail and expertise ensures total customer satisfaction. It's why we never lose a customer – our clients realize that no one is as dedicated to satisfying their needs as Sloan Lubrication.
EMERGENCY REPAIR

Lubrication system emergency? Call or email us, any time, day or night. We respond and fix the problem quickly! When you call or email Sloan Lubrication, you speak with an experienced professional who can troubleshoot the emergency and solve your problem. If necessary, a system can be designed, assembled, tested, and shipped within days. And if you need a part, we can ship the components IMMEDIATELY.

MAINTENANCE

Sloan can schedule maintenance at regular intervals. Our technicians will replace filter elements, check for leaks, adjust flow rates, and verify all operations. We want to know about any problems you are having — because what we like even better than fixing an emergency is preventing one from happening at all!

UPGRADES

We will evaluate your systems and make recommendations: replace obsolete components, customize your design, add more accurate monitoring, or automate the system. Upgrades can reduce lubrication rates and realize significant savings for you.

DESIGN & INSTALLATION

When you need a new system, Sloan Lubrication provides turnkey services — we’ll design, build, deliver, and install the entire package. We give you an efficient, reliable system to fit your precise needs: in-kind replacement, an upgrade, or a complete custom Sloan Lubrication System.
TRAINING
We can provide hands-on instruction for as many as 30 people in our fully equipped in-house training area. Or we can come to you! Training covers the design, operation, maintenance, and troubleshooting of all types of lubrication systems, engines, and compressors. We’ll help your people get the most out of your system!

TECH SUPPORT
Our technicians can come to you to test divider blocks, check valves, pumps, and monitors. We will verify all conditions and then repair (or replace) what’s necessary. This service ensures the most accurate oil delivery and continued reliable operation of your system.

CONSULTING
We've seen all types and kinds of engines and compressors — and we know how much oil each needs. Sloan Lubrication recommendations for your system are accurate and precise. Rely on us to help you keep your system running optimally.

Call us today at 1.800.722.0250
Revolutionizing Compressor Lubrication.

Guarantees delivery of precise amounts of specially designed lubricating fluid to compressor cylinder and packing at drastically reduced rates.

Does so automatically with added connectivity and intelligence.

Simplifies the end-to-end supply chain for fluids while minimizing site liability and potential for spills.
Benefits of TriCip

• **Oil Consumption**
  - Over 90% reduction from OEM recommended rates
  - For larger 6 throw machines, this can be over 3000 gallons / year!

• **Valve Life**
  - Field trials ~75% reduction in valve replacements after 12 months

• **Site Liability**
  - No outdoor storage tanks with truck deliveries, bulk transfers
  - Less spill liability

• **Reliability**
  - Built with proven long-life Sloan components
  - Drive Box, pumps, divider blocks, check valves

• **Redundancy**
  - Drive box has redundant parallel always-on pumps
  - If one fails, system automatically compensates

• **Operator Visibility**
  - Clear, easy to read and understand screen
  - One glance status light on cabinet

• **Safety**
  - No climbing over the auxiliary end piping of machines to service lube systems

• **IoT Communications**
  - Web portal
  - Email alerts
  - Digital comms with unit PLC / station SCADA systems
Automatic, protected lubricant delivery for compressors, pumps, and all critical equipment

The Sloan Lubrication System, comprised of highest quality components (including our SLS pumps and SB divider blocks), is custom designed for your specific application.

Provide the following specifications to receive a price quote:

For Reciprocating Compressors:
- Compressor make, model, rpm stroke, and bore size of each cylinder
- Check the oil lines to each cylinder, rod packing, or other points.

For Rotary Compressors:
- Make, model, size, and number of feeds

For Other Applications:
- Call us to help determine your lubrication needs.
Parts Breakdown

1. Supply Tank
2. SLS Pump Page 5
3. SLS Lubricator Box Page 6
4. Lubrication Panel
5. Gauge Assembly Page 7
6. Wizard Monitor Page 8
7. SB Divider Block Assembly Page 9
8. Electric Motor Drive with Reducer

System Options
- Explosion-proof: Class I, Div. I, Group C, D or Class I, Div. II, Group A, B, C, D
- Tank-mounted heater/thermostat
- External level control: Automatic fill from external source
- Electrically pre-wired to your site specifications
- Shut-off valve, Y-strainer, and supply purge point
- Unit mounted in weather-protective enclosure with full-view window
- Standard motors: 1/3 hp TEFC single or 3-phase motor (Other options available)
- Variable-speed motor controller
Lubricator Pump

Fits in the following box lubricators:
SLS, CPI /Premier, Lincoln / McCord, Mega

Product Details

- Standard mounting bolt centers (4.406“)
- Needle roller bearing for reduced friction
- High-performance piston seal = no leak by
- Corrosion-resistant fully-coated pump internals
- Hardened Stainless Steel piston
- Extra-wide sight glass window for easy drop viewing (vacuum)
- Spring-loaded PTFE seal poppets on suction and discharge
- Self-priming pump, with priming port for easy startup

Operating Conditions

- Maximum Speed: 60 spm
- 3/16 inch Piston: 10,000 max psi
- 1/4 inch Piston: 8,000 max psi
- 3/8 inch Piston: 3,500 max psi

Part Number Breakdown

SLS - P - (O) – (S)

1. (O) Oil Supply
   - P - Pressurized (External) 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
Lubricator Box

The completely redesigned SLS box lubricator has been engineered with long, rugged life in mind.

Product Details

- 4.406-inch pump bolt centers x 1-½ inch spacing
- 11ga cold-rolled laser-cut steel construction with welded mounting feet
- Radial ball bearings throughout; no bronze sleeve bushings on shafts or gears
- Powder-coated exterior and interior, for better corrosion resistance
- QPQ-nitrided exterior steel surfaces, for hardness and resistance to the elements
- CNC-machined internal components for superior reliability
- Overhung lip lid design for protection from the elements
- 1/2 inch-rise cams for longer adjustable pump range at any given rpm

Part Number Breakdown

SLS - (C) (G) – (D)

1. (C) Capacity
   - 4 - 4-pint (~8 pints of lubricant)
   - 8 - 8-pint (~12 pints of lubricant)

2. (G) Gear Ratio
   - B - 1:1 direct
   - G - 36:1 gear ratio
   - M - 90:1 gear ratio

3. (D) Drive Side
   - RE - Right end drive
   - LE - Left end drive

NOTE: Additional gear ratios and drive configurations are also available. Contact us with your specific application!
Gauge Assembly

Product Details

- 10-micron high pressure filter element (10-standard, optional 25, 40, 90, 150)
- Blowout disc ruptures at set pressure, safely relieving system pressure to atmosphere (relief valve option available)
- Sintered bronze element to protect divider block’s extremely tight tolerance pistons
- Liquid-filled, Stainless Steel pressure gauge
- Filter element allows easy replacement without disturbing piping
- Vertical installation of filter element parts protect gaskets upon install
- Purge point with a terminal check valve used for high-volume purging of the divider block and lubrication lines

Gauge Assembly Parts

- SB-G-1000  1,000 psi gauge
- SB-G-3000  3,000 psi gauge
- SB-G-5000  5,000 psi gauge
- SB-GA-AnchorBlock  Gauge assembly anchor block
- SB-GA-Assembly  Gauge assembly (configurable)
- SB-GA-BA-Assembly  Low-pressure blowout assembly without discs
- SB-GA-BA-Assembly-HP  High-pressure blowout assembly without discs
- SB-V-Balancing-1500  Relief Valve (optional)
- SB-V-Balancing-3500  Relief Valve (optional)
- SB-V-Balancing-7500  Relief Valve (optional)

Filter Parts

- SB-F-HP-A- (10, 25, 40, 90, 150)  High-pressure aluminum filter
- SB-F-HP-SS-(10, 25, 40, 90, 150)  High-pressure Stainless Steel filter
- SB-F-HP-K-(10, 25, 40, 90, 150)  Replacement element kit

Filter Part Number Breakdown

SB - F - HP - (P) – (U)  1  2

1. (P) Part
   K  Replacement high-pressure filter kit
   A  Aluminum high-pressure filter
   SS  Stainless Steel high-pressure filter

2. (U) Filter Element Rating (μm)
   10
   25
   40
   90
   150
Wizard Monitor

Product Details

- Four-zone simultaneous flow rate display
- Simple programming and setup with 3-1/2 inch color LCD touchscreen
- Tracks and displays total oil delivery for up to four zones
- Compatible with all PLC systems via MODBUS interface
- Continuous log file recording (internal and USB export)
- Signals a failure to an alarm upon flow rate drop
- Provides for automatic shutdown if flow rate drops

Specifications

- **Power supply**
  90-264 VAC, 47-63 Hz / 12-48VDC 15W max

- **Inputs**
  4 Zone proximity switches (low voltage dry contact)
  1 Total display switch
  1 Arm/disarm circuit
  2 4-20mA analog

- **Outputs**
  4 Zone alarm relays 250V Max 5A(NO)/3A(NC)
  1 Power fail relay 250V Max 5A(NO)/3A(NC)
  1 4-20mA Analog

- **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

Wizard Monitors

- **SB-MO-Wizard-JIC**
  Wizard Monitor: Standard pushbutton TDS switch
- **SB-MO-Wizard-XP**
  Wizard Monitor: Explosion-proof TDS switch
- **SB-MO-Wizard-JIC-Assembly**
  Wizard Monitor: JIC box with standard pushbutton TDS switch
- **SB-MO-Wizard-XP-Assembly**
  Wizard Monitor: XP box, XP with TDS switch
- **SB-MO-WizardSpares**
  Wizard Monitor spare parts
SB Divider Block

Product Details

- Integrated baseplate poppet checks ensure best positive output
- Outlet ports machined to accept O-ring fittings and standard pipe thread fittings
- Integrated top and bottom baseplate sections reduce leak points
- Rear-mounting spacers prevent thermal expansion
- Corrosion-resistant nitriding withstands the most extreme environments
- All surfaces precision machined to prevent geometric deformations
- Tapered countersunk mounting bolts transfer force away from the bore, eliminating bore distortion
- Manufactured and tested to the highest industry standards

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.

<table>
<thead>
<tr>
<th>SB Divider Sections</th>
<th>Displacement in³</th>
<th>cm³</th>
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<tbody>
<tr>
<td>SB-D-03T</td>
<td>.003</td>
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<td>SB-D-06T</td>
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<td>SB-D-24T</td>
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<tr>
<td>SB-D-30T</td>
<td>.030</td>
<td>.492</td>
</tr>
</tbody>
</table>

**NOTE:** All Divider Sections are also available with Single Outlet. T Designates Twin Outlets, S Designates a Single Outlet.
Parts Breakdown

1. Divider Section  
2. SB-D-Baseplate  
3. SB-D-Top  
4. SB-D-Bottom  
5. SB-D-T3  
   SB-D-T4  
   SB-D-T5  
   SB-D-T6  
   SB-D-T7  
   SB-D-T8  
   SB-D-T9  
6. SB-D-SectionBolt  
7. SB-D-SP  
8. SB-D-FP  
9. SB-O-V006

Optional Parts

- SB-D-Top-Lincoln  
- SB-D-Bottom-Lincoln  
- SB-D-CrossportRight  
- SB-D-CrossportLeft  
- SB-D-CrossportBoth

Intermediate baseplate  
Top end section  
Bottom inlet section  
Tie rod, 3-section  
Tie rod, 4-section  
Tie rod, 5-section  
Tie rod, 6-section  
Tie rod, 7-section  
Tie rod, 8-section  
Tie rod, 9-section  
Plunger section bolt 2/section  
Side section plug  
Front section plug  
Intermediate O-ring (Viton)  
Top section, Lincoln Bolt Centers  
Bottom section, Lincoln Bolt Centers  
Crossport plate, right  
Crossport plate, left  
Crossport plate, both
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

**Compact Size: 1-⅛ inches long for space-saving applications**
- Power Cylinders
- Rotary Vane Compressors
- Vacuum Pumps
- Material Handling Equipment

**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.)

**Part # SB-V-C-Terminal**
- 1/8 inch FPT x 1/8 inch MPT check

**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

**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

**NOTE:** Stainless Steel ball checks are identified by a groove around the body; Buna checks are engraved with a “B”.

Divider Block Assembly, Components, and Parts

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SLOAN LUBRICATION SYSTEMS
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 Proximity Switch

Product Details

Part # SB-D-MPS

- Follows piston travel and reports each block cycle to the Wizard Monitor
- Anodized aluminum body and Stainless Steel wetted parts
- Spring-free design means no wear parts
- Fully enclosed — no possible leak paths
- Removable magnetically captive pin for easy cleaning and operation verification
- Totally enclosed reed switch and PVC jacketed cable
- Compact 2-1/2 inch length
- Easily separable magnet housing
- Normally closed switch design for simplified troubleshooting and circuit verification
- Precision-manufactured reed switch designed for millions of switch closures at low voltage
- US Patent 8575921

Details

- 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 (@ 0.5V, 10mA): 200
- Insulation resistance (@ 100V): $10^{10}$
- Sensor resistance (@ 40% overdrive): 480 mOhm

NOTE: Enclosure is rated to UL Class 1 Division 1, Groups A,B,C & D; Temperature Code T-6. To maintain Hazardous Environment Class rating, an appropriate conduit fitting for the specified environment must be attached according to location standards.
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
Purge Gun

Product Details

• Easy-to-see oil level
• Custom-machined aluminum chamber
• Rugged cast steel head
• Highly flexible hose with short bend radius hose allows the gun to be used in tight spaces
• 36-inch hose assembly for hard to reach areas
• Built-in check valve
• 3000 psi oil-filled pressure gauge
• Comes with both Parker and Swagelok fittings
• Other fitting brands are available on request

Specifications

• Lubricant: Oil
• Rated Pressure: 3,000 psi (5,000 psi option available)
• Chamber Material: Anodized aluminum / glass compatible with all types of oils
• Body Material: Aluminum
• Chamber Capacity: 1 pint (0.4L)

Purge Guns

• SB-W-PurgeGun-PK-SW: SB Purge Gun with Both Parker and Swagelock Tubing Connections
• SB-W-PurgeGun-5000: SB Purge Gun with 5000 PSI Gauge & Hose
Air Trap

Fits in place of existing Sloan Air Trap. Removes water and air from the oil supply upstream of the oil pumps

Product Details

Part # SB-S-Air/Watertrap

Part # SB-S-Air/Watertrap-NB (NB - No Bracket Included)

- Fits existing Sloan Air Trap Centers
- 1/8 inch NPT Bleed Port Top with installed valve
- Pyrex Tube – handles all oil types
- Corrosion resistant anodized aluminum
- EPDM Gaskets
- 1/4 inch NPT Inlet & Outlet
- Can include mounting Bracket

Operating Conditions

- Maximum Oil Pressure
  125 psi

Air Collects at top
Pyrex Tube
Water & debris collects at bottom
1/4" NPT Outlet

EPDM Gaskets
Anodized Aluminum components
1/4" NPT Inlet

1/8" NPT Bleed Port
Included Mounting Bracket

SB-H-1/4-Bolt-1/2 x2
SB-H-1/4-Lockwasher x2
SB-H-1/4-Flatwasher x2
Existing Part Replacement

Sloan Lubrication stocks replacement parts for all of your existing systems. Contact us and we can help you figure out what you need!

Additional Parts and Services Available

Our mission is to never fail to exceed all customer expectations in providing the absolute highest quality of product, service, and delivery available in the lubrication industry.

The Sloan Lubrication System is the most reliable and trustworthy product in the lubrication industry today. We are proud of our products and of our reputation for unparalleled customer service.

Call us anytime so we can help you with your lubrication processes.
Sloan can design and quote a lubricator or upgraded lubrication system. Complete this form and email to sales@sloanlubrication.com or print and fax to 412.828.2424.

### Existing Lubricator Specifications

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<thead>
<tr>
<th>Manufacturer</th>
<th>Model Number</th>
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<tr>
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<td>Options</td>
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</table>

### Existing Lubricator Specifications

| Application |
| Manufacturer |
| Model Number | Horsepower |
| RPM | Compressor Stroke |
| Type of Gas Being Compressed |
| Zones of Lubrication | Type of Oil Used |

#### Zone #1 Information

<table>
<thead>
<tr>
<th>Compressor Zone</th>
<th>Number of Stages</th>
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<tr>
<td>Cylinder #1 Bore</td>
<td># of Feeds to Cylinder</td>
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<tr>
<td>Cylinder #2 Bore</td>
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<tr>
<td>Cylinder #3 Bore</td>
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<td>Cylinder #4 Bore</td>
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<tr>
<td>Cylinder #5 Bore</td>
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#### Zone #2 Information

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<tr>
<th>Power Zone</th>
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<tbody>
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<tr>
<td>Number of Oil Lines to Each Power Valve</td>
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<td>Additional Feeds</td>
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</tr>
<tr>
<td>How Many Additional Feeds</td>
<td></td>
</tr>
<tr>
<td>Oil Supply</td>
<td></td>
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</tbody>
</table>

### Comments
Divider Blocks Specifications

Complete this form and email to sales@sloanlubrication.com or print and fax to 412.828.2424.

Type:
- Manzel
- Trabon
- Lincoln
- McCord
- Other

Fittings:
- Steel
- Stainless Steel
- Other ________________

Type:
- Parker
- Swagelok
- Other ________________

Type of Lubricant: ________________

Outlet Check Valves:
- Yes
- No

Pin Indicators
- Yes
- No

Proximity Switch:
- Yes
- No

Cycle Indicators
- Yes
- No

Number of Sections: ________________
Number of Outlets: ________________
Tube OD: ________________

Inlet:
- Top
- Bottom

Fill in sketch with:
Section Number, Letter Designations, Outlet Locations and Locations of Other Outlets
Maintenance Checklist

Onsite System Inspection and Maintenance

- Test / replace Divider Block (in part or complete assembly)
- Change high-pressure filter element
- Replace both pump units with new (purge and operate)
- Check oil in Lubricator Reservoir and Gear Reducer; change if necessary
- Open Tank drain to check for condensate or contaminants
- Verify Heater and Thermostat operation
- Clean Tank Y-Strainer
- Verify Wizard Monitor settings
- Re-prime and purge all panel components
- Operate system to confirm proper delivered flow rate and operating pressure
- Check for any external leaks from fittings and components

System Serial Number

Date

Comments