Centralized Lubrication Equipment
For oil and grease applications

A lubrication system for your every need
Bijur offers the best combination of product range, state-of-the-art technology and world-class customer service.
A lubrication system for your every need

Now, from a single reliable source, you can select the system best suited for your needs – whether oil or grease. Bijur offers industry’s widest selection. For the best combination of product range, state-of-the-art technology, and personal, professional attention, contact your nearest Bijur representative – you’ll be more than pleased with our prompt response.

The Bijur product range includes lubricators, resistance fittings, injectors, manifolds and accessories for use in a variety of systems. Each lubrication system can be used in a variety of industrial settings – from specific applications to broad machinery lubrication. This overview brochure will reference several of the lubrication systems in which we specialize, each helping to extend machinery life and maintain production efficiency.

**Single Line Resistance**

Bijur Single Line Resistance systems are compact, economical and relatively simple to operate and maintain. The system is ideally suited for machinery or equipment which displays closely configured bearing clusters, or groups.

A precisely controlled discharge of oil is delivered to each point while the machine is in operation. The system provides a clean film of oil between critical bearing surfaces to keep friction and wear to a minimum.

**Positive Displacement Injectors**

Bijur Positive Displacement Injector systems operate on pressure generated by a centralized system lubricator. Defined as a pump plus a reservoir, most systems use a motor-driven or pneumatic lubricator, and are ideal for machinery or equipment which needs a precise amount of lubricant to multiple wear points.

Injectors are alternately activated and deactivated at regular intervals. Oil and fluid grease discharges from the injectors when the system reaches operative pressure.

**Series Progressive**

Bijur Series Progressive systems are generally used on medium-duty machinery and equipment. Robust pumps are connected to lubrication manifolds, some of which are modular, allowing for easy installation, modification and maintenance, without the removal of any tubing.

Progressive movement lubricant divider blocks operate in a pre-arranged sequence for easy monitoring of system operation through a moving indicator pin. Cyclic discharge from a lubricator forces sequential movement of the pistons inside the divider block, which displaces fixed volumetric amounts of lubricant to each point connected to the system network.

**Specialty Systems**

Bijur Specialty systems are as reliable and efficient as other systems, they just don’t fit in any of those categories. From our air/oil systems to high-speed spindle lubricators, Bijur has the widest range of products in the industry today! Regardless of your lubrication demands, Bijur has a product that can help you get more efficiency out of your machinery and equipment.
**Manual Lubricators (oil)**

Bijur “One-Shot” lubricators provide a convenient method of supplying a metered quantity of oil to the machine by simple manual actuation of lever or handle. Applications range from a few points to 100 points.

**Where used:**
Manual “One-Shot” lubricating systems are used on textile machinery, machine tools, punch presses, food processing machines, printing machinery and many types of special equipment.

**Advantages:**
- safe and clean
- compact
- simple installation
- easy manual operation
- economical

<table>
<thead>
<tr>
<th>Type</th>
<th>Max. Flow Value (T)</th>
<th>Method of Operation</th>
<th>Delivery</th>
<th>Max. Discharge (cc/shot)</th>
<th>Pressure (psi)</th>
<th>Approx. No. Points Served</th>
<th>Reservoir Capacity</th>
<th>Part Number</th>
<th>Datasheet</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>L18P</td>
<td>850</td>
<td>push lever</td>
<td>adjustable</td>
<td>18.0</td>
<td>65</td>
<td>10-100</td>
<td>1 liter</td>
<td>D-3033C</td>
<td>21968</td>
<td>bracket</td>
</tr>
<tr>
<td>L2P</td>
<td>150</td>
<td>pull knob</td>
<td>non-adjustable</td>
<td>2.0</td>
<td>30</td>
<td>1-30</td>
<td>200cc</td>
<td>C-2988C</td>
<td>24797</td>
<td>bracket</td>
</tr>
<tr>
<td>L5P</td>
<td>220</td>
<td>push lever</td>
<td>adjustable</td>
<td>5.0</td>
<td>75</td>
<td>1-50</td>
<td>1 pint</td>
<td>D-3174C</td>
<td>21967</td>
<td>bracket</td>
</tr>
<tr>
<td>HAP</td>
<td>800</td>
<td>push lever</td>
<td>adjustable</td>
<td>15.0</td>
<td>60</td>
<td>5-75</td>
<td>1 pint</td>
<td>D-3221C</td>
<td>24375</td>
<td>bracket</td>
</tr>
<tr>
<td>HIP</td>
<td>800</td>
<td>pull handle</td>
<td>adjustable</td>
<td>15.0</td>
<td>30</td>
<td>5-75</td>
<td>1 pint</td>
<td>D-3204C</td>
<td>24374</td>
<td>bracket</td>
</tr>
<tr>
<td>KIB</td>
<td>650</td>
<td>pull handle</td>
<td>non-adjustable</td>
<td>5.0</td>
<td>60</td>
<td>1-50</td>
<td>sump mounted</td>
<td>C-1957-2</td>
<td>2230</td>
<td>bracket</td>
</tr>
<tr>
<td>KIC</td>
<td>220</td>
<td>pull handle</td>
<td>non-adjustable</td>
<td>5.0</td>
<td>60</td>
<td>1-40</td>
<td>sump mounted</td>
<td>C-2367-2</td>
<td>2230</td>
<td>bracket</td>
</tr>
</tbody>
</table>

Note: Basic Bijur lubricators are listed. Other configurations are available on some models – check individual datasheets. Use Type F meter units with above lubricators.
Automatic Lubricators (oil)

Cyclic
Lubricators (Type TM) add flexibility to cyclic lubrication. Complete systems can be designed into new machinery or easily applied to machines already in service.

Where used:
Usage similar to other cyclic lubricators in installations from a few points to 50 points.

Advantages:
- automatic
- driven by integral synchronous timing motor
- variety of cycle times available
- mounts at any machine location
- simple to install

<table>
<thead>
<tr>
<th>Type</th>
<th>Max. Flow Value (cc/shot)</th>
<th>Method of Operation</th>
<th>Delivery</th>
<th>Max. Discharge (cc/min)</th>
<th>Pressure (psi)</th>
<th>Approx. No. Points Served</th>
<th>Reservoir Capacity</th>
<th>Part Number</th>
<th>Datasheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM-1</td>
<td>100</td>
<td>motor adjustable</td>
<td></td>
<td>1.0</td>
<td>25-50</td>
<td>1-20</td>
<td>1 pint, 1 liter</td>
<td>various</td>
<td>21383</td>
</tr>
<tr>
<td>TM-5</td>
<td>220</td>
<td>motor adjustable</td>
<td></td>
<td>5.0</td>
<td>25-60</td>
<td>50</td>
<td>1 liter, 1 gallon</td>
<td>various</td>
<td>21836</td>
</tr>
<tr>
<td>TMD-5</td>
<td>220</td>
<td>motor adjustable</td>
<td></td>
<td>5.0</td>
<td>25-60</td>
<td>50</td>
<td>1.8 liter</td>
<td>various</td>
<td>24117</td>
</tr>
<tr>
<td>SureFire</td>
<td>*</td>
<td>motor adjustable</td>
<td></td>
<td>167-500</td>
<td>75</td>
<td>100</td>
<td>1.8, 2.7, 6, 12 liter</td>
<td>various</td>
<td>35146, 35147</td>
</tr>
</tbody>
</table>

Note: Basic Bijur lubricators are listed. Other configurations are available on some models – check individual datasheets. Use meter units with above lubricators.

Continuous
Precise control over the oil flow rate is always maintained. Only Bijur continuous lubricators can accurately deliver, on a continuous basis, as little as one drop per hour. Where a heavy oil flow rate is desired, a return line filter can be used to filter the excess oil and return it to the reservoir for redistribution (see page 16).

Where used:
Applications include: machine tools, textile machinery, presses, packaging machinery, printing equipment, injection molding machines, plus a wide variety of other industrial machinery.

Advantages:
- maintains oil film on bearing surfaces
- warns if trouble exists
- delivers oil continuously (as little as 1 drop/hour, as much as 1 gallon/hour)
- feeds only filtered oil to bearings
- adapts to machine configuration

<table>
<thead>
<tr>
<th>Type</th>
<th>Max. Flow Value (cc/shot)</th>
<th>Method of Operation</th>
<th>Delivery</th>
<th>Max. Discharge (cc/min)</th>
<th>Pressure (psi)</th>
<th>Approx. No. Points Served</th>
<th>Reservoir Capacity</th>
<th>Part Number</th>
<th>Datasheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>V5B</td>
<td>see note</td>
<td>motor adjustable</td>
<td></td>
<td>125.0</td>
<td>100 or 200</td>
<td>200</td>
<td>0.5 gallon</td>
<td>various</td>
<td>2163</td>
</tr>
<tr>
<td>V5W</td>
<td>see note</td>
<td>motor adjustable</td>
<td></td>
<td>125.0</td>
<td>100 or 200</td>
<td>200</td>
<td>1 gallon</td>
<td>various</td>
<td>24064</td>
</tr>
<tr>
<td>Gear Pump</td>
<td>see note</td>
<td>motor non-adjustable</td>
<td></td>
<td>50.0</td>
<td>&gt; 100</td>
<td>200</td>
<td>sump mounted</td>
<td>24795, 24796</td>
<td></td>
</tr>
</tbody>
</table>

Note: Basic Bijur lubricators are listed. Other configurations are available on some models – check individual datasheets. Use control units with above lubricators.

For breakdown of permissible “Φ” values for various numbers of point. see individual datasheets.
**HOW TO ORDER**

The SureFire lubricator features a smart part number ordering system, where you can tailor the pump to meet your needs. First, choose the reservoir capacity, distribution system, pump options, controller type and voltage you need. Then, put the numbers into the corresponding squares in the easy-to-use grid. You now have the customized part number.

Example: To order a 1.8L reservoir with a volumetric/PDI distribution system, no options, terminal block controller and a 115VAC motor, you would use part number SF2BNAC.

---

**Automatic Lubricators** *(oil/grease)*

The SureFire lubricator is capable of handling oil and fluid greases. Available in four reservoir capacities to fit your space requirements and lubrication demands, the SureFire lubricator is a self-contained electric motor-driven gear pump that can adapt to a broad range of production machinery. It can handle single injectors, injector groups or resistance fittings serving up to 100 lubrication points. Its versatility allows it to perform with other lubrication systems and is available in SLR and PDI versions.

**Benefits of SureFire**

The SureFire lubricator is designed with the user in mind. It has a unique and flexible modular construction that make it user-friendly.

- Multiple voltage options: 115VAC, 230VAC, 24VDC and 230/480VAC three phase motor
- Outlet connections on both sides facilitate quick installations
- Quick-snap reservoir release clips let you quickly remove the unit for service and provide easy access for servicing and replacement of key components
- Large fill cap and built-in strainer allows for faster filling and fewer spills
- Liquid level, pressure switch, pressure relief valve and pressure gauge included
- Cast base and sealed electric motor enclosure protect working components from contamination

---

**Options**

- Standard oil version
- Standard grease version
- Quick connect grease version
- Quick connect oil version

**Controller type**

- Terminal block
- Programmable controller/monitor
- ON/OFF timer
- Direct connect to three phase motor
- Pressure switch

**Distribution system**

- Volumetric/PDI

**Reservoir capacity**

- 2—1.8 Liter (ABS plastic)
- 3—2.7 Liter (ABS plastic)
- 6—6.0 Liter (ABS plastic)
- 12—12.0 Liter (reservoir is painted steel)

**Voltage**

- B—24 VDC, 2.4 Amp
- C—115VAC, 50/60 Hz, 2.2 Amp
- D—230VAC, 50/60 Hz, 95 Amp
- E—230/480 50/60 Hz, three phase 0.5/0.4 Amp (416/500 ccm/min pump delivery)
- F—230/480 50/60 Hz, three phase 0.5/0.4 Amp (167/200 ccm/min pump delivery)

**Standard versions include:** float type reservoir low level switch, standard reservoir fill-cap screen, quick dump valve for PDI’s, 450psi pressure relief valve.
Pneumatic Lubricators (oil)

This popular economical lubricator provides a simple convenient method to lubricate diverse industrial machines. Operated by shop air, Airmatic oil output is related to piston travel and cycles per unit time. Models are available for all types of single line oil systems. Various configurations are offered.

Where used:
All machinery where shop air is available, eg: metalcutting and metalforming, packaging machines, processing and packaging equipment. Other applications include chain lubrication and special assembly machinery.

Advantages:
– Simple operation
– Wide range of applications
– Handles a wide range of oil viscosities
– Simple to sophisticated models offered
– Controllers are available for actuating and monitoring
Models available with built-in, solid-state, electronic controllers and top-mounted solenoid valves.

Use Meter Units for SLR' Systems (see page 9); use PDIs for Injector Systems' (see page 10); use Dividers for Progressive Systems' (see page 12).

<table>
<thead>
<tr>
<th>System Type</th>
<th>Pump Type</th>
<th>Delivery Volume per Cycle</th>
<th>Cycle Time</th>
<th>Means of Actuation</th>
<th>No. of Bearings 1 to</th>
<th>Reservoir Capacity</th>
<th>Datasheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLR</td>
<td>piston</td>
<td>adjustable</td>
<td>variable</td>
<td>pneumatic impulse</td>
<td>100</td>
<td>1.5, 4 and 12 liter</td>
<td>20349, 24442</td>
</tr>
<tr>
<td>PDI</td>
<td>piston</td>
<td>fixed</td>
<td>variable</td>
<td>pneumatic impulse</td>
<td>50</td>
<td>1.5, 4 and 12 liter</td>
<td>20349, 24442</td>
</tr>
<tr>
<td>PROG</td>
<td>piston</td>
<td>adjustable</td>
<td>variable</td>
<td>pneumatic impulse</td>
<td>75</td>
<td>1.5, 4 and 12 liter</td>
<td>20349, 24442</td>
</tr>
</tbody>
</table>

Airmatic Lubricators
Lubricators (grease)

When grease is the preferred lubricant, a variety of manual and automatic grease lubricators are available. These units can handle most semi-fluid, soft and firm greases up to, and including, NLGI No. 2, over a wide operating temperature range.

Where used:
Automotive production machines, primary metals (steel industry), printing machinery, die-casting and injection molding machines, glass machinery, materials handling equipment, construction and transportation equipment and special assembly machines.

Advantages:
- Handles most industrial greases
- Various outputs to suit most applications
- Wide selection of reservoir capacities
- Follower plates (springless) standard to prevent cavitation and easy servicing

<table>
<thead>
<tr>
<th>Lubricator Type</th>
<th>Means of Actuation</th>
<th>Delivery</th>
<th>Discharge Volume</th>
<th>Maximum Discharge Pressure (psi)</th>
<th>Datasheet</th>
<th>Reservoir Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKA 214</td>
<td>manual</td>
<td>fixed</td>
<td>1cc/shot</td>
<td>2000</td>
<td>24267</td>
<td>0.4 &amp; 1 liter</td>
</tr>
<tr>
<td>SK 505</td>
<td>motor-Driven 12 &amp; 24V DC</td>
<td>fixed</td>
<td>13cc/min</td>
<td>850 &amp; 2000</td>
<td>24266</td>
<td>0.4 &amp; 1 liter</td>
</tr>
<tr>
<td>MultiPort</td>
<td>motor-driven DC &amp; AC</td>
<td>fixed</td>
<td>0.16cc/cycle per outlet</td>
<td>3600</td>
<td>27660</td>
<td>2, 4 &amp; 6 liter</td>
</tr>
<tr>
<td>DS</td>
<td>motor-driven DC &amp; AC</td>
<td>fixed</td>
<td>25cc/min</td>
<td>1450</td>
<td>48860</td>
<td>1, 2 &amp; 5 liter</td>
</tr>
<tr>
<td>SureMatic</td>
<td>pneumatic impulse</td>
<td>fixed (preselected)</td>
<td>1.0cc – 6.0cc/shot</td>
<td>1450</td>
<td>21673, 26422, 26054, 20238</td>
<td>2, 3.5 &amp; 5 liter</td>
</tr>
</tbody>
</table>

For larger applications, consult Bijur.
Resistance Fittings (oil)

**Meter Units**

*One Shot and Cyclic Systems*

A precision unit less than one inch long. It filters, regulates and delivers the right amount of oil flow to the bearing it serves. One Meter Unit is provided for each bearing of the machine. These self-contained flow control fittings are available in 8 flow rates and 16 types to meet the exact oil feed and installation requirements of all bearings. Internal construction of all Meter Units are the same.

The Bijur Meter Unit consists of the following:

- **A filter** which removes dirt that may be in the system at time of assembly, thus protecting the bearing against any possible foreign materials.
- **A metering orifice** of known flow value, which controls rate of oil feed to the bearing. Rate of feed is controlled by orifice characteristics built into the unit. The flow rate number is stamped on the body of each Meter Unit.
- **A check valve** which opens under oil feed pressure, preventing leakage from the system. With lines always full of oil, instant feed is assured whenever the lubricator operates. Direction of flow is shown by an arrow stamped on the Meter Unit.

Datasheet: 19860, 20309

**Control Unit**

*Continuous Systems*

Like the Bijur Meter Unit, the Control Unit is less than one inch long. The amount of oil each bearing receives is governed by the line pressure and the Control Unit flow rate. These self-contained flow control fittings are available in 17 flow rates and various types to meet the exact oil feed and installation requirements.

Datasheet: 19861, 20652
## HOW TO ORDER

The ZEM injectors also use a smart part numbering system that allows you to tailor the injector to meet your needs. First, choose the injector type, number of outlets, outlet type and the discharge volume for each outlet. Then, put the numbers into the corresponding squares in the easy-to-use grid below. You now have the customized part number.

Example: To order a three outlet, 35 Series injector, with push-to-connect fittings, where the discharge volumes are 0.1cc, 0.2cc and 0.6cc, you would use part number ZEM353PDFH.

### ZEM Injectors at a glance

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Discharge volumes (cc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>Screw-in injector (requires manifold bar)</td>
<td>0.01, 0.03, 0.06, 0.1, 0.16</td>
</tr>
<tr>
<td>33</td>
<td>Screw-in injector (requires manifold bar)</td>
<td>0.01, 0.03, 0.06, 0.1, 0.16</td>
</tr>
<tr>
<td>34</td>
<td>Built-in cast manifold construction</td>
<td>0.01, 0.03, 0.06, 0.1, 0.16</td>
</tr>
<tr>
<td>35</td>
<td>Built-in cast manifold construction</td>
<td>0.1, 0.2, 0.4, 0.6</td>
</tr>
<tr>
<td>39</td>
<td>Built-in cast manifold construction</td>
<td>0.2, 0.4, 0.6, 1.0, 1.5</td>
</tr>
</tbody>
</table>

### Technical specifications

- **Lubricants**
  - Oil viscosity range: 20 to 1500 cSt at operating temperature
  - Fluid greases*: NLGI 000
- **Pressure**
  - Operating maximum: 45 bar (650 psi)
  - Operating minimum: 15 bar (220 psi)
  - Relieving: 0.7 bar (11 psi)
  - Seals: Viton

* Please contact a Bijur representative for applications using fluid grease.

### Discharge volume

<table>
<thead>
<tr>
<th>Outlet type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>M8x1 for compression</td>
</tr>
<tr>
<td>P</td>
<td>Push-to-connect</td>
</tr>
</tbody>
</table>

**Example:**

- **Discharge volume:**
  - A—0.01 cc (Series 32, 33, 34)
  - B—0.03 cc (Series 32, 33, 34)
  - C—0.06 cc (Series 32, 33, 34)
  - D—0.1 cc (Series 32, 33, 34, 35)
  - E—0.16 cc (Series 32, 33, 34, 35)
  - F—0.2 cc (Series 35, 39)
  - G—0.4 cc (Series 35, 39)
  - H—0.6 cc (Series 35, 39)
  - I—1 cc (Series 39)
  - J—1.5 cc (Series 39)
  - X—0.0 cc PLUG (Series 34, 35, 39)

### Notes:

- **Series 32:**
  - Injector ends that can be quickly replaced within a manifold to change discharge settings

- **Series 33:**
  - Ten output volumes available for diverse application types and points (0.01cc/ cycle to 1.5cc/cycle*)
  - Flexible design allows you to choose from output volumes for each outlet
  - Can be used in the same system with other ZEM Series injectors
  - Optional push-to-connect fittings help lower installation labor costs

Datasheet: 35135
**PDI Cyclic Injectors (oil/grease*)**

Positive Displacement Injector (PDI) Systems are a cost-effective method of feeding preset amounts of lubricant to friction points. During operation, pressure build-up from a cyclic lubricator forces a piston in each injector forward, delivering a volumetric amount of oil to individual points.

**Where used:**
Textile machinery, glass machinery, injection molding machines, machine tools, printing machines and processing equipment.

**Advantages:**
- Wide range of outputs available
- Operate in a wide temperature range without affecting discharge
- Volume can be varied to individual points by simply changing individual injectors or adjusting output of existing injectors
- System can be easily extended or modified

PDI Type are available in American and Metric thread configurations. Models also available for direct mounting at bearing.

*Can handle greases to NLGI #2 when used in conjunction with Injector Reset Valve (datasheet 24601) for small and medium machinery.

<table>
<thead>
<tr>
<th>PDI Type</th>
<th>Output Range Per Cycle (cc's)</th>
<th>Pressure Range (psi)</th>
<th>Lubricant</th>
<th>Configuration</th>
<th>Datasheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZJB</td>
<td>0.025 – 0.40</td>
<td>200 – 500</td>
<td>Oil</td>
<td>Junction Mounted</td>
<td>24274</td>
</tr>
<tr>
<td>ZMB</td>
<td>0.025 – 0.40</td>
<td>200 – 500</td>
<td>Oil</td>
<td>Junction Mounted</td>
<td>24275</td>
</tr>
<tr>
<td>FL-32</td>
<td>0.016 – 0.131</td>
<td>1200 – 3500</td>
<td>Grease</td>
<td>Manifold</td>
<td>27314</td>
</tr>
<tr>
<td>FL-33</td>
<td>0.016 – 0.049</td>
<td>1200 – 3500</td>
<td>Grease</td>
<td>Manifold</td>
<td>27317</td>
</tr>
<tr>
<td>FL-42</td>
<td>0.016 – 0.049</td>
<td>750 – 1000</td>
<td>Oil</td>
<td>Manifold</td>
<td>27311</td>
</tr>
<tr>
<td>FL-43</td>
<td>0.016 – 0.131</td>
<td>750 – 1000</td>
<td>Oil</td>
<td>Manifold</td>
<td>27313</td>
</tr>
<tr>
<td>FL-11</td>
<td>0.82 – 8.2</td>
<td>1000 – 3500</td>
<td>Grease</td>
<td>Single Outlet</td>
<td>34255</td>
</tr>
<tr>
<td>FL-45</td>
<td>0.82 – 8.2</td>
<td>750 – 1000</td>
<td>Oil</td>
<td>Single Outlet</td>
<td>32698</td>
</tr>
<tr>
<td>FL-1</td>
<td>0.131 – 1.64</td>
<td>1850 – 3500</td>
<td>Oil</td>
<td>Manifold or Direct Mount</td>
<td>34254</td>
</tr>
<tr>
<td>FL-44</td>
<td>0.131 – 1.64</td>
<td>750 – 1000</td>
<td>Oil</td>
<td>Manifold or Direct Mount</td>
<td>32725</td>
</tr>
</tbody>
</table>
Progressive Dividers (oil/grease)

Progressive movement lubricant divider blocks operate in a pre-arranged sequence for easy monitoring of system operation through a moving indicator pin. Normally, the pin transmits a signal to the system controller through an electrical limit switch at the end of a complete lubrication cycle.

Cyclic discharge from a lubricator forces sequential movement of pistons inside the divider block, which displaces fixed volumetric amounts of lubricant to each point connected to the system network.

Where used
Automotive machinery, machine tools, punch presses, rotary transfer lines, primary metals industries, high output production machinery and textile machines.

Advantages
- Fixed pre-arranged volumetric discharge
- Oil and grease dividers available
- Suitable for small and large systems
- Simple monitoring through an indicator pin
- Automatic monitoring through controllers

Progressive Divider Type | Number Ports Available | Discharge Capacity* (cc/stroke) | Operating Pressure Range (PSI) | Configuration | Datasheet
---|---|---|---|---|---
U-12R | 4, 6, 8, 10, 12 | 0.3 | 140 – 850 (oil) 140 – 2000 (grease) | die cast | 3102
M1000 | 6, 8, 10, 12, 14, 16, 18 | 0.08, 0.164, 0.246, 0.328, 0.492 | 2000 | modular | 27663
M2500 | 6, 8, 10, 12, 14, 16, 18, 20 | 0.08 to 1.31 | 3500 | modular | 24805
M3000 | 6, 8, 10, 12, 14, 16, 18, 20 | 0.41 to 4.92 | 3000 | modular | SL2800

Dividers can be crossported for various outputs.
 Denotes number of discharge ports.
Specialty Lubrication

FluidFlex®
Industry’s most versatile pressurized dispensing system for fluids, lubricants or coolants, FluidFlex® pressurized dispensing system is designed for maximum efficiency, accuracy and control when dispensing virtually any fluid used in manufacturing or process industries. The FluidFlex low pressure dispensing system easily adapts to any industrial process or machine type that requires a controlled flow of fluid during operation. The air-actuated system dispenses a wide range of fluids - from water-based coolants to viscous lubricants including synthetic fluids.

ChassisCare®
Manual and automatic lubrication system for on-road and off-road vehicles deliver soft and medium greases to chassis lube point under dynamic or working conditions. And unlike some lubrication systems, the ChassisCare system is sold as a kit, with all the hardware and accessories you need for quick and easy installation included.

Speaking of installation, the entire system can be installed quickly and easily – in just about an hour. For trailers, one lubrication block handles a tandem axle. A typical commercial truck requires blocks for the front left, front right and rear axles. Optional 5th wheel systems are available as well.

Whether your fleet consists of trucks, trailers or both, you will save time and resources by installing the ChassisCare system. Optimize your maintenance staff and let ChassisCare handle truck and trailer lubrication, quickly and easily.

RetrievALL
Unique air powered vacuum device siphons “escaping” fluids from hydraulic seals on machinery. Fluids are collected in a central reservoir. At a pre-arranged level, fluid is automatically discharged from device. Collected hydraulic fluids can be returned to original system for reuse.

- Eliminates costly hydraulic seal leaks
- Creates clean work environment
- Improves plant safety
- Reduces product spoilage
- Monitors leakage rates with controller/totalizer
- Tracks pre-set fault limits
- Delivers predictable maintenance

HyperFormance
Bijur’s HyperFormance Air/Oil Lubricating System delivers high-efficiency lubrication and cooling for high-speed spindles and other surfaces requiring accurate oil deliveries. The advanced design delivers precise amounts of lubricant and eliminates residual drift of “oil fog” or mist during operation.

The system utilizes a special design Positive Displacement Injector (PDI) with oil outputs to a close tolerance level down to 0.01 cc/cycle. This permits exact oil volumes to be discharged into an air mixing valve, for controlled air and oil flows through clear plastic tubing to critical bearing points.

Small intermittent discharge from injectors flows along the inside tube wall and stretches out along the length of the tube. Air expansion at nozzle tip delivers controlled spray (not mist) to bearing for optimum performance.
**Line Filters**

**In-Line Filter (Line Pressure)**
Available in two basic sizes, these easily serviced die-cast housed filters have disposable porous metal filter elements. Two grades of sintered metal filtration are offered, namely, 25 and 125 micron particle protection – ideal for cyclic and continuous systems.

Datasheet: 21275

**In-Line Filter (High Pressure)**
Large filter area minimizes cleaning frequency – suitable for larger flow capacity continuous lubrication systems. Reversible mounting bracket enables position of inlet and outlet parts to be interchanged; 3, 12 and 25 micron filtering characteristics available.

Datasheet: 21820

**Return Line Filter**
Expressly designed for use in Bijur Continuous Recirculating Systems. Located in return line to filter gravity-fed return liquid flows. Large filter area (100 mesh screen) extends filter changes, bowl and filter element remove easily without disconnecting lines.

Datasheet: 21970
### Lubricator Reservoirs (oil)

<table>
<thead>
<tr>
<th>Part #</th>
<th>Capacity</th>
<th>Material</th>
<th>Lubricator Type</th>
<th>Mounting</th>
<th>Extra Features</th>
<th>Datasheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>D3256</td>
<td>200cc (1/2 pint)</td>
<td>plastic</td>
<td>L2P</td>
<td>bracket</td>
<td></td>
<td>use part #</td>
</tr>
<tr>
<td>D3086</td>
<td>475cc (1 pint)</td>
<td>plastic</td>
<td>L5P, TM-1</td>
<td>bracket</td>
<td></td>
<td>use part #</td>
</tr>
<tr>
<td>C2966</td>
<td>475cc (1 pint)</td>
<td>plastic</td>
<td>HAP, HIP</td>
<td>assemble</td>
<td></td>
<td>use part #</td>
</tr>
<tr>
<td>D3218</td>
<td>1 Liter (2 pints)</td>
<td>plastic</td>
<td>L18P, TM-5</td>
<td>bracket</td>
<td>sight gauge</td>
<td>use part #</td>
</tr>
<tr>
<td>20673</td>
<td>1 Liter (2 pints)</td>
<td>metal</td>
<td>L18P, TM-5</td>
<td>bracket</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D2559</td>
<td>2 Liter (1/2 gallon)</td>
<td>cast aluminum</td>
<td>VSB</td>
<td>side or bottom</td>
<td>built-in inlet filter &amp; settling chamber</td>
<td>use part #</td>
</tr>
<tr>
<td>20324</td>
<td>2 liter (1/2 gallon)</td>
<td>plastic</td>
<td>TMD-5</td>
<td>bracket</td>
<td></td>
<td>use part #</td>
</tr>
<tr>
<td>34794</td>
<td>2 liter (1/2 gallon)</td>
<td>plastic</td>
<td>SureFire</td>
<td>bottom</td>
<td>quick release clips</td>
<td>35117</td>
</tr>
<tr>
<td>34795</td>
<td>3 liter (3/4 gallon)</td>
<td>plastic</td>
<td>SureFire</td>
<td>bottom</td>
<td>quick release clips</td>
<td>35117</td>
</tr>
<tr>
<td>D2591</td>
<td>3.8 liter (1 gallon)</td>
<td>cast aluminum</td>
<td>V5W</td>
<td>bottom</td>
<td>level switch</td>
<td>2304</td>
</tr>
<tr>
<td>D2593</td>
<td>3.8 liter (1 gallon)</td>
<td>cast aluminum</td>
<td>V5W</td>
<td>bottom</td>
<td></td>
<td>2304</td>
</tr>
<tr>
<td>D3027</td>
<td>3.8 liter (1 gallon)</td>
<td>cast aluminum</td>
<td>V5W</td>
<td>bottom</td>
<td>return line settling chamber</td>
<td>2306</td>
</tr>
<tr>
<td>D3295</td>
<td>3.8 liter (1 gallon)</td>
<td>cast aluminum</td>
<td>TM-5</td>
<td>bottom or bottom bracket</td>
<td>level switch</td>
<td>2306</td>
</tr>
<tr>
<td>D3845</td>
<td>4 liter (1 gallon)</td>
<td>plastic</td>
<td>Versamatic, Airmatic</td>
<td>bracket</td>
<td></td>
<td>use part #</td>
</tr>
<tr>
<td>D3892</td>
<td>4 liter (1 gallon)</td>
<td>plastic</td>
<td>TM-5</td>
<td>bracket</td>
<td></td>
<td>use part #</td>
</tr>
<tr>
<td>21449</td>
<td>4 liter (1 gallon)</td>
<td>metal</td>
<td>Airmatic, TM-5</td>
<td>bracket</td>
<td>sight gauge</td>
<td>use part #</td>
</tr>
<tr>
<td>21960</td>
<td>6 liter (1.5 gallons)</td>
<td>metal</td>
<td>Versamatic</td>
<td>bracket</td>
<td>sight gauge</td>
<td>use part #</td>
</tr>
<tr>
<td>34796</td>
<td>6 liter (1.5 gallons)</td>
<td>plastic</td>
<td>SureFire</td>
<td>bottom</td>
<td>quick release clips</td>
<td>35117</td>
</tr>
<tr>
<td>19846</td>
<td>12 liter (3 gallons)</td>
<td>metal</td>
<td>Airmatic, Versamatic</td>
<td>bottom or bottom bracket</td>
<td>sight gauge</td>
<td>use part #</td>
</tr>
<tr>
<td>35153</td>
<td>12 liter (3 gallons)</td>
<td>painted steel</td>
<td>SureFire</td>
<td>bottom</td>
<td></td>
<td>35117</td>
</tr>
<tr>
<td>D3030</td>
<td>19 liter (5 gallons)</td>
<td>cast aluminum</td>
<td>V5W</td>
<td>side or bottom</td>
<td>level switch</td>
<td>2305</td>
</tr>
<tr>
<td>D3050</td>
<td>19 liter (5 gallons)</td>
<td>cast aluminum</td>
<td>V5W</td>
<td>side or bottom</td>
<td></td>
<td>2305</td>
</tr>
<tr>
<td>D3031</td>
<td>19 liter (5 gallons)</td>
<td>cast aluminum</td>
<td>V5W</td>
<td>side or bottom</td>
<td>return line settling chamber</td>
<td>2305</td>
</tr>
</tbody>
</table>
System Controllers/Monitors

Interval Controllers
(time based)
A basic controller to cycle solenoid operated centralized oil or grease systems automatically.
- For indoor use (NEMA 1 housing)
- Encapsulated timer
- Easy adjustment
- Manual lube button
- Lube cycle indicator

A basic interval controller supplied in a NEMA 4 drip-proof housing.

A microprocessor-based GP controller for single line systems.

Remote Controllers/Monitors
(time & count based)

SM-C Controller
A programmable controller is used to monitor motor-driven or solenoid-operated cyclic systems.

Features include:
- Low level warning
- Operational pressure monitoring
- Lube On/Lube Off indication

---

<table>
<thead>
<tr>
<th>Description</th>
<th>Datasheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Line Resistance, Intermittent Duty</td>
<td>21637</td>
</tr>
<tr>
<td>Single Line Resistance, Continuous Duty</td>
<td>21682</td>
</tr>
<tr>
<td>Positive Displacement, Intermittent Duty</td>
<td>21705</td>
</tr>
<tr>
<td>Positive Displacement, Continuous Duty</td>
<td>21706</td>
</tr>
<tr>
<td>Progressive Dividers</td>
<td>24268</td>
</tr>
<tr>
<td>Verimatic System</td>
<td>19623</td>
</tr>
</tbody>
</table>
System Monitors

Pressure Gauges (30 – 400 psi)
Pressure Gauges are used as a convenient means of indicating pressure in the distribution system. They are normally supplied with maximum pressure indicating fingers to show the highest pressure attained during the pressure period. The maximum pressure indicating finger remains in position until manually reset to zero.

Datasheet: 1505, 2650

Pressure Signal Switch
This device monitors the pressure of a Bijur Continuous Lubricating System. A warning light will indicate a pressure failure in the system.

Datasheet: 19478, 21969

Sight Feeds
Provides visual check of flow of oil to bearing. Screws directly to application point. Vented or non-vented available.

Datasheet: 24998

Electronic Pressure Monitor
Used only with Bijur Automatic Cyclic SLR Lubricating Systems, this unit monitors the frequency of the lubrication cycle (cycle time) and the discharge pressure developed per cycle.

Datasheet: 21956

For indication of blocked or broken main lines
Line Fittings

Adapters and Connectors
These fittings are used to connect tubing to threaded holes in bearing housings or way surfaces. Available in sizes to fit all Bijur standard tubing.

Datasheets:
2520 (Adapters 3/32", 5/32" Tubing)
2550 (Adapters 1/4", 3/8" Tubing)
2530, 2550 (Connectors and Couplings)

Junctions & Junction Headers
Fittings for easy branching of tubing lines in Bijur lubricating systems from two (2) to multiple outlets.

Datasheet: 2500, 2505, 2510

Junctions (Metric)
Datasheet: 21574, 21576

Flexible Hose & Hose Assemblies
These fittings provide a flexible conduit for feeding lubricating oil to moving machine parts or assemblies.

Metal braided and spring covered hose and tubing assemblies are also available.

Datasheet: 2550, 2600

See “Specialty Fluid Fittings” brochure (B151) for more information.
Miscellaneous Components

**Swivels**
Makes possible extension of distribution systems through rotating or oscillating shafts.
Datasheet: 24998

**Tubing**
Various diameters of rigid and flexible tubing are available for all lubrication system types.
Datasheet: 2550, 2800, 2801, 2802

**Window Units**
Used to indicate liquid levels in reservoirs. Window units are virtually flush mounted and simple to install.

**Chokes**
Economically control pulsation of fluids or gases in pressurized lines. Installed before gauges, they stabilize the flow for accurate reading (5 to 1500 psi).
Datasheet: 2450

**Check Valves**
Small, low pressure ball type valves provide effective leak-tight check against back-up surges or flow below opening pressures (1/2 to 50 psi).
Datasheet: 2730

** Brushes**
Brush assemblies are used for lubricating moving machine components such as chains, gears, cams, etc. Oil flow to each brush is governed by cyclic or continuous systems.
Datasheet: 24803

**Compression Fittings**
Available to fit system tubing, includes nuts, bushings, sleeves, closure plugs and drive bushings.
Datasheet: 2800, 2801, 2802

**Tools**
Various special tools are available to facilitate installation of Bijur equipment.
Datasheet: 2900

**Tubing Clips**
For securing brass, copper, steel or nylon tubing. Double or single types available.
Datasheet: 2800, 2801, 2802

**Quick Disconnect Couplings**
Hydraulic fluid couplings permit fast connect and disconnect of system components. Four configurations available.
Datasheet: 24277
Innovators of engineered lubrication technology since 1923

Sometimes you know what kind of lubrication system you need. Sometimes you don’t. Bijur has experienced regional sales managers that can walk you through the process of selecting a system that fits your needs when you aren’t sure. And when you need additional parts for the system, our trained customer service representatives can help you choose genuine Bijur parts that can generally be shipped to you within 24 hours.

Bijur also has ISO 9001:2000 quality certified manufacturing facilities around the world, so you’ll know your centralized lubrication system meets the highest industry quality standards. It’s all part of the Bijur commitment to quality and customer service.

CORPORATE HEADQUARTERS
Bijur Delimon International
808 Aviation Parkway, Suite 1400
Morrisville, NC 27560

BIJUR LUBRICATING CORPORATION
1-800-631-0168

YOUR LOCAL DISTRIBUTOR

©Copyright 2006. All rights reserved. Bijur and Bijur logo are registered trademarks of Bijur Lubricating Corp. in the United States, other countries or both. Other company's trademarks are held by the individual company.

BIJUR LIMITED WARRANTY
Bijur warrants that all products it manufactures will be free from defects in material and workmanship for a period of one year from the date of shipment (from the date of delivery to the first-use purchaser for shipments outside of the United States). This warranty shall be limited to the repair or replacement, at Bijur’s expense, of products or parts which are proven to Bijur’s satisfaction to be defective. This warranty does not cover any damage due to accident, misuse, negligence or abnormal use. Use of a Bijur product in a system which includes components not manufactured by Bijur is not covered by this warranty. Any alteration or removal of the serial number on a Bijur product shall void this warranty.

IT IS EXPRESSLY AGREED THAT THIS LIMITED WARRANTY SHALL BE IN LIEU OF ALL WARRANTIES OF FITNESS AND IN LIEU OF THE WARRANTY OF MERCHANTABILITY. BIJUR SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES THAT ARISE OUT OF THE INSTALLATION, USE OR OPERATION OF A BIJUR PRODUCT OR OUT OF THE BREACH OF ANY EXPRESS OR IMPLIED WARRANTIES.