

LubeSite 500 Series

Grease, Metal Base, Corrosion Resistant



General

LubeSite 500 Series are nickel-chrome, double-plated for applications where corrosive resistance is required, such as chemical and food processing applications. Units are assembled with medium springs (three additional light and heavy springs are included in each box of ten). An extra heavy (orange) spring is available for applications requiring the use of an extension or for higher pressure flushing applications. LubeSite unit 560 is individually boxed with a light (blue) and heavy (red) spring. The piston seal ring in the 500 Series is fabricated from chemical-resistant Viton®.

Application

LubeSite 500 Series can be used on any equipment that has:

- + Anti-friction oscillating, ball or roller bearings
- + Shielded bearings with seals
- + Bronze, oilite or open bearings
- + Requires bearing flushing action

Operation

LubeSite automatic grease feeders have only two moving parts (spring, piston with metering rod and piston seal ring). The design combines foolproof simplicity with rugged component strength for dependable, controlled lubrication.

The graduated channels in the meter rod allow the bearing to use grease as required. Once the reservoir is filled and the unit is connected to a bearing, the single-point lubricator uses Venturi action to discharge lubricant only when the bearing is in motion. Thus, grease is never packed into the bearing. This benefits manufacturers that will have some planned machine downtime, because over-lubrication is eliminated. Because the single-point lubricator only generates 1-5 psi it will not blow bearing seals. When the bearing stops, so does the grease flow.

Technical Data

| | | |
|------------------------------|----------------------------------|---|
| Material | Domes | Polycarbonate |
| | Bases | Nickel-chrome plated lightweight aluminum |
| Grease | NLGI grade 0 to 4 non-separating | |
| Thread Size | 1/8" NPT | |
| Operating Temperature | -10°F to 250°F (-23°C to 121°C) | |



ATTENTION

See Brochure #L713: LubeSite Systems for more information

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Start Up Instructions

1. Use proper spring: Every LubeSite unit comes factory-equipped with medium spring (silver) which gives correct grease feeding pressure for most applications. A lightweight spring (blue) and a heavyweight spring (red) are available. Consult the spring selection guide (page 3) to determine the proper spring.
2. Remove grease fitting from equipment or bearing housing: Check to see that the thread on the grease fitting is 1/8". You may need another LubeSite adapter to mount the LubeSite unit (refer to accessories).
3. Fill LubeSite unit with a non-separating grease: Connect a grease gun to the side grease fitting. Fill with grease until the grease comes out of the base coupler. First filling may be above caution line to assure no air pockets. Outlet must be unobstructed as over-pressuring can result in top separating from base which can cause serious head or eye injury. Mount the LubeSite unit on equipment immediately.
4. Screw the LubeSite assembly directly into the grease fitting hole: Turn hand tight only.
5. LubeSite can be refilled while mounted on equipment: This should be accomplished before the seal ring is down on the top of the base. Simply refill by attaching the grease gun to the grease fitting and fill until the seal ring rises to the bottom edge of the caution label.

WARNING

Do not overfill! Overfilling can cause over-pressure which can result in top separation from base which can cause serious head or eye injury.

For refilling hard to reach applications, use the LubeLine remote refill line.

Maintenance

LubeSite units are made from high-quality, heavy-duty engineered materials and are manufactured to meet rigid standards. These units require only minimum care to provide long, trouble-free service under normal operating conditions.

The transparent dome should be kept free of exterior dirt, so that the interior grease level can always be seen. Most dirt can easily be removed with mild detergents (never use solvents). Grease fittings should be wiped clean before and after filling and the protective cap replaced.

We recommend that the LubeSite unit be thoroughly cleaned inside and out about once a year as a routine, or whenever the grease has separated or solidified. More cleaning may be required in extremely dirty or dusty environments

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Selecting the Proper Unit Size

To determine the LubeSite unit size, you need to know the bearing shaft diameter and speed, as well as the bearing class. For example, if the shaft diameter is 2", the bearing is sealed and the shaft speed is a continuous 2000 rpm, you will need an extra large unit.

LubeSite Size Selection Guide

| Bearing Shaft Diameter | Up to 1-1/2" | | | |
|------------------------|--------------|--------|------------|--------|
| Operating Condition | Intermittent | | Continuous | |
| Class of Bearing | Open | Sealed | Open | Sealed |
| Under 2500 rpm | 1 oz | 1 oz | 1 oz | 1 oz |
| Over 2500 rpm | 2 oz | 2 oz | 2 oz | 2 oz |
| Bearing Shaft Diameter | Over 1-1/2" | | | |
| Under 1000 rpm | 2 oz | 2 oz | 2 oz | 2 oz |
| 1000-2500 rpm | 2 oz | 2 oz | 6 oz | 6 oz |
| Over 2500 rpm | 6 oz | 6 oz | 6 oz | 6 oz |

Note: Bigger isn't always better. Don't intentionally oversize LubeSite units.

Selecting the Proper Spring Size

To determine the proper spring, you need to know the operating temperature and the grease weight. For example, if the operating temperature of the bearing ranges from 60°F to 80°F, and you're using grade 2 grease, then you will need a medium (silver) spring. See the spring selection guide below. If mounting on an extension, use of an extra heavy (orange) spring may be required (spring effectiveness will vary with application).

LubeSite Spring Selection Guide

| Operating Temperature | Grease (Grade) | | | | |
|--------------------------------|----------------|--------|--------|--------|-----|
| | 0 | 1 | 2 | 3 | 4 |
| -10°F to 40°F (-23°C to 4°C) | Blue | Silver | Red | --- | --- |
| 40°F to 110°F (4°C to 43°C) | Blue | Silver | Silver | Red | --- |
| 110°F to 200°F (43°C to 93°C) | --- | Blue | Silver | Silver | Red |
| 200°F to 250°F (93°C to 121°C) | --- | --- | Blue | Silver | Red |

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How to Order

| Name | Reservoir Capacity | Part # |
|---------------------|--------------------|--------|
| LubeSite 500 Series | 1 oz (28.3 g) | 502 |
| | 2 oz (56.7 g) | 505 |
| | 6 oz (170.1 g) | 560 |

When ordering, specify by name, description and part number, e.g. LubeSite 500 Series, 2 oz Reservoir Capacity, Part #505.

Springs

| Color | Strength | Part # | | |
|---------------------|-------------|--------------|--------------|--------------|
| | | LubeSite 502 | LubeSite 505 | LubeSite 560 |
| Blue | Light | 202-7 | 205-7 | 360-7 |
| Silver | Medium | 202-8 | 205-8 | 360-8 |
| Red | Heavy | 202-9 | 205-9 | 360-9 |
| Orange ¹ | Extra heavy | 202-15 | 205-15 | 360-15 |

¹ Available for 1 oz, 2 oz and 6 oz grease feeders to be used on extension and where greater pressure is desired for flushing action.

Adapters & Couplers

| Name | Description | Material | Part # |
|---------|--------------------------------------|----------------------|--------|
| Adapter | Straight, 1/8" NPT (F) x 1/4"-28 (M) | Zinc plated steel | 20-1 |
| | | Nickel chrome plated | 50-1 |
| | Bushing, 1/8" NPT (F) x 1/4" NPT(M) | Zinc plated steel | 20-2 |
| | | Nickel chrome plated | 50-2 |
| | 45°, 1/8" NPT (F) x 1/8" NPT(M) | Zinc plated steel | 20-3 |
| | | Nickel chrome plated | 50-3 |
| | 45° 1/8" NPT (F) x 1/4"-28 (M) | Zinc plated steel | 20-6 |
| | | Nickel chrome plated | 50-6 |
| | 90°, 1/8" NPT (F) x 1/4"-28 (M) | Zinc plated steel | 20-4 |
| | | Nickel chrome plated | 50-4 |
| | 90°, 1/8" NPT (F) x 1/8" NPT(M) | Zinc plated steel | 20-5 |
| | | Nickel chrome plated | 50-5 |
| Coupler | Base, 1/4" NPT (F) x 1/8" NPT(M) | Zinc plated steel | 202-2 |
| | | Nickel chrome plated | 502-2 |
| | 1/4" NPT (F) x 1/4"-28 (M) | Zinc plated steel | 202-2A |

For additional accessories, see Brochure #L713: LubeSite Systems.

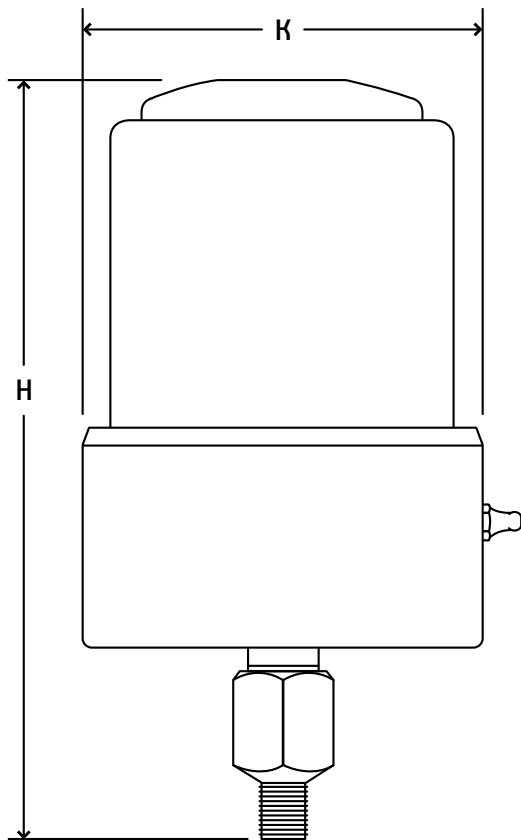
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Dimensional Schematics



| Part # | H | K |
|--------|------------------|-----------------|
| 502 | 3.625" (92.1mm) | 1.75" (44.5mm) |
| 505 | 4.625" (117.5mm) | 2.375" (60.3mm) |
| 560 | 6.00" (152.4mm) | 3.00" (75mm) |

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