LUBRI-CUP™

AUTOMATIC LUBRICANT DISPENSERS



CHESTERTON®
Global Solutions, Local Service.



The robust equipment design allows for use even in the harshest environments and can be found in the following industries:

- Automotive Assembly
- Automation and Robotics
- Chemical and Petroleum
- Food and Beverage
- Marine
- Metal Processing, Smelting, and Casting
- Mining and Ore Processing
- Oil and Gas
- Power Generation
- Pulp and Paper
- Water and Wastewater
- Wood Processing

Accurate Lubrication is Critical to the Performance of Industrial Equipment

Chesterton® Lubri-Cup™ Automatic Lubricant Dispensers



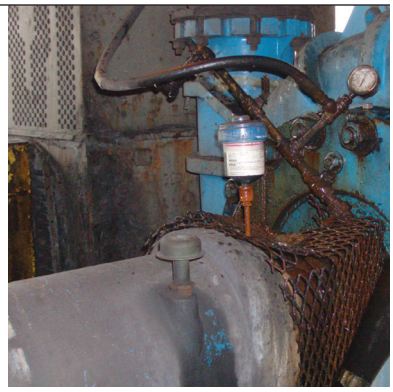
Reliability engineers, lubrication technicians, and production and process managers understand that lubrication is a crucial step and a wise investment to optimize equipment life. Chesterton lubricant dispensers can provide the best lubrication solutions for plant equipment. Both over- and under-lubrication, abrasive conditions and water contamination can lead to premature bearing failure, costly repairs, and downtime. The best practice is to apply the correct engineered lubricant in small, metered amounts over a defined period of time.

Chesterton Lubri-Cup is a state-of-the-art, precision-designed, cost-effective alternative to manual lubrication of bearings used in electric motors, generators, compressors, fans and blowers, pumps, agitators, and mixers. Lubri-Cup can also be used on slideway, linear actuators, open gears, rail systems, bushings, and journals. The robust equipment design allows for use even in the harshest environments, and can be found in the following applications:



Lubri-Cup™ VG

Variable Gas, Single-Point Automatic Lubricators



Chesterton Lubri-Cup VG is a 250cc automatic, single-point lubricator used to dispense Chesterton grease at a controlled rate and interval. The Lubri-Cup VG pro-logic microprocessor chip control is easy to use and can be programmed by simply pressing a single button. Pressure is generated intermittently above the piston which delivers a fresh and precise amount of lubricant to your critical equipment. The VG is also certified for "intrinsic safety" for use in hazardous areas.

Product Characteristics

- Easy to use; simple to install and operate
- Variable dispensing rates: 1, 2, 3, 6, 12 months
- Remote installation: up to 1 m (3 ft) away
- Service temperatures: -15°C – 60°C (5°F – 140°F) alkaline battery
- Electrochemical operation, safe, non-flammable nitrogen gas
- Diagnostic LCD display
- Programmable with a single switch

UL Certifications: Class I, Div I, Group A, B, C, D
IP: IP 68



Lubri-Cup VG Ordering Information	
Reorder Number	Product Description
085951	Lubri-Cup VG 250cc 613 Moly Grease
084304	Lubri-Cup VG 250cc 615 HTG #1
084305	Lubri-Cup VG 250cc 615 HTG #2
085783	Lubri-Cup VG 250cc 615 HTG #2 460
084478	Lubri-Cup VG 250cc 625 CXF
084306	Lubri-Cup VG 250cc 630
085818	Lubri-Cup VG 250cc 630 SXCF 220 #1
084383	Lubri-Cup VG 250cc 635
086339	Lubri-Cup VG 250cc 638 EMG 100 #2
086340	Lubri-Cup VG 250cc 638 EMG 46 #2

Lubri-Cup™ VG Mini

Variable Gas, Single-Point Automatic Lubricators



Chesterton Lubri-Cup VG Mini is a 120cc automatic, single-point lubricator used to dispense Chesterton grease to critical areas while eliminating over- and under-greasing. The Lubri-Cup VG Mini is controlled with an electrochemical microprocessor to offer superior advantages over conventional gas-powered dispensers. The Lubri-Cup VG Mini is cost competitive and easy to use.

Product Characteristics

- Easy to use; simple to install and operate
- Variable dispensing rates: 1, 2, 3, 6, 12 months
- Service temperatures: -15°C – 60°C (5°F – 140°F) alkaline battery
- Remote installation: up to 1 m (3 ft) away
- Electrochemical operation, safe, non-flammable nitrogen gas
- Programmable with a single switch

UL Certifications: Class I, Div I, Group A, B, C, D and Class II, Div I, Group E, F, G
IP: IP 68



Lubri-Cup VG Mini Ordering Information	
Reorder Number	Product Description
084473	Lubri-Cup VG Mini 120cc 630
085819	Lubri-Cup VG Mini 120cc 630 SXCF 220 #1
084477	Lubri-Cup VG Mini 120cc 615 #2 HTG
085876	Lubri-Cup VG Mini 120cc 615 #2 460
084359	Lubri-Cup VG Mini 120cc 625 CXF
084492	Lubri-Cup VG Mini 120cc 635

**Units come with an alkaline battery*

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Lubri-Cup™ EM

Electromechanical Automatic Grease Dispenser

Chesterton Lubri-Cup EM is an automatic, single-point or multiple-point lubricant dispenser available in 60cc, 125cc, 250cc, or 500cc. The Lubri-Cup EM dispenser permits reliable lubrication with an advanced, computerized control system. It consists of a vertical positive displacement feed pump, motor/gear set, and microprocessor allowing typical operating pressure of 30 kgf/cm² (425 psi) or up to 60kfg/cm² (850 psi) when needed. Lubri-Cup EM is ideal for hard to reach/ hazardous locations via its remote installation capability.



Product Characteristics

- Easy to use; simple to install and operate
- Programmable: operates up to 12 months, or 24 months
- Replaceable grease service packs with alkaline or lithium battery
- Service temperature:
  -15°C – 60°C (5°F – 140°F) alkaline battery
  -40°C – 60°C (-40°F – 140°F) lithium battery
- Lubricates up to 8 bearings
- Remote installation up to 6 m (20 ft) away
- Single-point dispensing up to 10 m (33 ft) with NLGI #1 grease only
- Diagnostic LCD display, push-button setting



Lubri-Cup EM Base Unit Only* Ordering Information	
Reorder Number	Product Description
086715	Lubri-Cup EM 60cc Main
084421	Lubri-Cup EM 125cc Main
084307	Lubri-Cup EM 250cc Main
084510	Lubri-Cup EM 500cc Main

Lubri-Cup™ EM-S and EM-SP

EM-S: Operation is Machine Synchronized
EM-SP: Machine Synchronized, External Machine-powered

The Lubri-Cup™ EM-S and EM-SP have the same great features of the Lubri-Cup EM with the added ability to operate in synchronization when installed on standby or intermittently-operated equipment. The units will dispense the preset amount of grease only when the machine is operating. Lubri-Cup EM-S and SP units go into "standby" mode until the equipment returns to operation. EM-S utilizes the internal battery for power and synchronizes via an external switch. The EM-SP is externally powered by the equipment or PLC. There is no need to replace the battery pack for up to 5 years.



Product Characteristics

- Programmable: operates up to 12 months
- Replaceable grease service packs with alkaline or lithium battery
- Lubricates up to 8 bearings
- Remote installation up to 6 m (20 ft) away
- Single-point dispensing up to 10 m (33 ft) away with NLGI #1 grease only
- Service temperature:
  -15°C – 60°C (5°F – 140°F) alkaline battery
  -40°C – 60°C (-40°F – 140°F) lithium battery
- Diagnostic LCD display, push-button setting
- 250cc unit is programmable for 125cc or 250cc



Lubri-Cup EM-S & EM-SP Base Unit Only* Ordering Information	
Reorder Number	Product Description
084309	Lubri-Cup EM-S 250cc (Relay Box Included)
084311	Lubri-Cup EM-SP 250cc (DC Power Supply Included)
084682	Lubri-Cup EM-SP 250cc (AC Power Supply Included)
084568	Lubri-Cup EM-SP 500cc (DC Power Supply Included)
084569	Lubri-Cup EM-SP 500cc (AC Power Supply Included)
084602	VAC External Power Supply Free Voltage under 220 AC Volt

**Order grease service packs separately*

Lubri-Cup™ EM-VS

Electromechanical, Vibration Sensing, Synchronized

Chesterton Lubri-Cup EM-VS is the next generation electromechanical technology with a vibration sensor that allows the unit to lubricate only when equipment is operating. When the unit receives a vibration signal from the equipment, it delivers the preset amount of grease to the machine, and when there is no signal the unit automatically goes into standby mode. This helps prevent the problems caused by over-greasing.



Product Characteristics

- Synchronizes to equipment
- Easy to install and adjust settings
- Programmable: operates up to 12 months
- Replaceable grease service packs with alkaline or lithium battery
- Lubricates up to 8 bearings
- Remote installation up to 6 m (20 ft) away
- Single-point dispensing up to 10 m (33 ft) away with NLGI #1 grease only
- The Lubri-Cup EM-VS unit is programmable for 60cc, 120cc, or 240cc

Lubri-Cup EM-VS Base Unit Only* Ordering Information	
Reorder Number	Product Description
086720	Lubri-Cup EM-VS 60cc Main
085840	Lubri-Cup EM-VS 120/240cc





Vibration Sensing Module

Lubri-Cup™ EM-XPL

Electromechanical, Certified for Use in Potentially Hazardous Environments

Chesterton Lubri-Cup EM-XPL has the same great design as the Lubri-Cup EM and is specially designed with a modified enclosure rated for limited hazardous locations. It consists of a vertical positive displacement feed pump, motor/gear set, and microprocessor allowing typical operating pressure of 30 kgf/cm² (425 psi) or up to 60 kfg/cm² (850 psi) when needed.



Product Characteristics

- Easy to use; simple to install and operate
- Programmable: operates up to 12 months (see page 12 for details)
- Replaceable grease service packs with alkaline battery only
- Lubricates up to 8 bearings
- Remote installation up to 6 m (20 ft) away
- Service temperature: -15°C – 60°C (5°F – 140°F) alkaline battery
- Diagnostic LCD display, push-button setting
- 250cc unit is programmable for 125cc or 250cc
- Single-point dispensing up to 10 m (33 ft) away with NLGI #1 grease only

UL Certifications: Class I, Div 2, Group A, B, C, D, T4, and Class II, Div 2, Group F, G, T4
ATEX: II 3 G/Ex ic IIB T4 Gc
IP: IP 65

(Class I) Approved for flammable gas, liquids, and solids, (Class II) Approved for combustible dust, (Div 2) where ignitable concentrations of flammable materials are not likely to exist under normal conditions. (Group A, B, C, D) Tested safe with acetylene, hydrogen and propane gas. (Group F, G) Tested safe with carbonaceous dust, non-conductive dust.



Lubri-Cup EM-X Base Unit Only* Ordering Information	
Reorder Number	Product Description
086412	Lubri-Cup EM-XPL 240cc Main
086414	Lubri-Cup EM-XPL 480cc Main

**Order replacement batteries separately*

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Electric Motor Lubrication Kit

All-in-One Solution for Automated Lubrication of Motor Bearings

All-in-one kit allows easy lubrication of electric motor bearings with simple installation. The kit provides all the parts needed to install a Lubri-Cup automatic grease dispenser on an electric motor.

Each kit contains:

- *One Lubri-Cup EM or EM-VS automatic grease dispensing unit*
- *Two Lubri-Cup EM 250cc service packs (Alkaline batteries, dust cover, grease pouch with 638 EMG #100 or 638 EMG #46)*
- *1- unit of 2-point remote install kit (line prefilled with 638 EMG)*



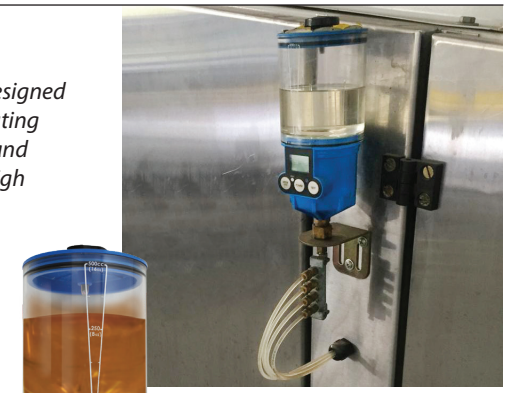
Product Characteristics

- Automatic and worry-free lubrication of electric motor
- Simplified ordering (minimum quantity of one kit)
- Easy to refill in position
- Available for continuous and standby equipment (Lubri-Cup EM and EM-VS models)
- The kit provides all the parts required to install a Lubri-Cup on a motor lubricating two bearings
- The kit comes with Chesterton's 638 EMG #100 or 638 EMG #46, top of the line Quiet Bearing Technology (QBT) greases for motors that provide:
  Excellent corrosion resistance, high water washout resistance, high load carrying capability, and compatibility with polyurea grease.

Lubri-Cup™ OL 500 Oiler

"Pulse" Delivery, Automatic Lubrication System

Chesterton Lubri-Cup OL 500 Oiler is our latest innovation in oil lubrication specifically designed to deliver a fresh, consistent, and precise amount of oil to all of the vital parts of your rotating equipment. The precise and reliable lubrication of the OL 500 significantly reduces wear and oil consumption and extends the service life of your machine, thus significantly cutting high maintenance costs. The OL 500 is easily refillable.

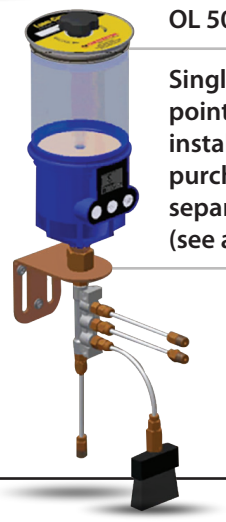




Product Characteristics

- Microprocessor-controlled "pulse" delivery system
- Programmable: operates up to 12 months
- Service temperature: -15°C – 60°C (5°F – 140°F) alkaline battery
  -40°C – 60°C (-40°F – 140°F) lithium battery
- Refillable—order oil separately
- Lubricates up to 4 points
- Sealed microprocessor

Lubri-Cup OL 500 Oiler* Ordering Information	
Reorder Number	Product Description
084319	Lubri-Cup OL 500cc Oiler
084457	Lubri-Cup OL 500-SP Oiler w/AC power
084464	Lubri-Cup OL 500-SP Oiler w/DC power
084351	Single Point Remote Install Kit for Lubri-Cup OL 500 Oil Lubricator (Oil brush NOT included)
084352	2 Point Remote Install Kit for Lubri-Cup OL 500 Oil Lubricator (Oil brush NOT included)
084353	3 Point Remote Install Kit for Lubri-Cup OL 500 Oil Lubricator (Oil brush NOT included)
084354	4 Point Remote Install Kit for Lubri-Cup OL 500 Oil Lubricator (Oil brush NOT included)
084337	Oil Brush 2" Flat Nylon Brush (1/8" NPT)
084338	Oil Brush 1" Round Nylon Brush (1/8" NPT)
084355	Oil Brush and Bracket Kit



OL 500 Main Unit

Single or multiple point remote installation kit purchased separately (see above).

**Order replacement batteries separately*

Lubri-Cup™ EM Service Packs

The Lubri-Cup EM automatic lubricant dispensers are developed to last multiple cycles through the use of replaceable service packs. As a result, one of the most significant benefits of the Lubri-Cup electromechanical lubricators is the substantial accumulated savings over the cost of manual lubrication while providing precise and reliable lubrication quality.



Replaceable Service Pack includes: A grease pouch of Chesterton grease in volumes of 250 or 500cc, OEM battery pack: Standard DC 4.5V Alkaline or Optional DC 4.5V Lithium (recommended for severe conditions), a disposable dust cover, and a grease label.

Keep service pack stored in a cool and dark place. The grease pouch and battery pack *must* always be replaced together at the end of each lubrication cycle to enable reliable operation performance of the lubricator.

Lubri-Cup EM Service Pack Ordering Information			
Reorder Number	**Lubri-Cup Model**	**Chesterton Grease**	**Battery Type**
EM 60cc Alkaline Battery			
086718	EM 60cc	635 SXC	Alkaline
EM 125cc Alkaline Battery			
084446	EM 125cc	615 HTG #1	Alkaline
084373	EM 125cc	615 HTG #2	Alkaline
084245	EM 125cc	630 SXCF	Alkaline
084409	EM 125cc	625 CXF	Alkaline
085813	EM 125cc	635 SXC	Alkaline
EM 125cc Lithium Battery			
084428	EM 125cc	635 SXC	Lithium
084274	EM 125cc	630 SXCF	Lithium
EM 250cc Alkaline Battery			
084313	EM 250cc	615 HTG #1	Alkaline
084314	EM 250cc	615 HTG #2	Alkaline
085663	EM 250cc	615 HTG #2 460	Alkaline
084315	EM 250cc	625 CXF	Alkaline
084312	EM 250cc	630 SXCF	Alkaline
085820	EM 250cc	630 SXCF 220 #1	Alkaline
086341	EM 250cc	638 EMG 100 #2	Alkaline
086342	EM 250cc	638 EMG 46 #2	Alkaline
085950	EM 250cc	629 HTWG	Alkaline
EM 250cc Lithium Battery			
084392	EM 250cc	615 HTG #1	Lithium
084393	EM 250cc	615 HTG #2	Lithium
084379	EM 250cc	630 SXCF	Lithium
085821	EM 250cc	630 SXCF 220 #1	Lithium
084424	EM 250cc	635 SXC	Lithium
086729	EM 250cc	613 Grease	Lithium
085724	EM 250cc	615 HTG #2 460	Lithium
EM 250cc No Battery			
084401	EM 250cc	635 SXC	—
085831	EM 250cc	625 CXF	—
086256	EM 250cc	630 SXCF 220 #1	—
084448	EM 250cc	615 HTG #2	—

Lubri-Cup EM Service Pack Ordering Information			
Reorder Number	**Lubri-Cup Model**	**Chesterton Grease**	**Battery Type**
EM 500cc Alkaline Battery			
084515	EM 500cc	615 HTG #1	Alkaline
084516	EM 500cc	615 HTG #2	Alkaline
084521	EM 500cc	630 SXCF	Alkaline
085822	EM 500cc	630 SXCF 220 #1	Alkaline
084511	EM 500cc	635 SXC	Alkaline
085788	EM 500cc	615 HTG #2 460	Alkaline
EM 500cc Lithium Battery			
084591	EM 500cc	615 HTG #2 460	Lithium
084519	EM 500cc	615 HTG #2	Lithium
084535	EM 500cc	625 CXF	Lithium
085823	EM 500cc	630 SXCF	Lithium
085824	EM 500cc	630 SXCF 220 #1	Lithium
084526	EM 500cc	635 SXC	Lithium
EM 500cc No Battery			
085722	EM 500cc	615 HTG #2	—
085723	EM 500cc	635 SXC	—
086258	EM 500cc	630 SXCF 220 #1	—

Grease Selection Guide

Industrial-Grade Grease									
Name	**Thickener**	**Base Oil**	**NLGI Grade**	**Base Oil Viscosity (ISO VG)**	**Dropping Point, ASTM D2265**	**Service Temperature**	**Four Ball Wear Weld Load, ASTM D2596**	**Water Washout Resistance, ASTM D1264**	**Corrosion Resistance, ASTM B117**
613 Moly Grease	Lithium Complex	Mineral	2	150	304˚C (580˚F)	-18 – 150˚C (0 – 302˚F)	500 Kg	<1.0	300 hours @50 microns
615 HTG #1	Calcium Sulfonate Complex	Mineral	1	100	300˚C (572˚F)	-45 – 204˚C (-50 – 400˚F)	620 Kg	<1.0	>1000 hours @50 microns
615 HTG #2	Calcium Sulfonate Complex	Mineral	2	100	318˚C (604˚F)	-40 – 204˚C (-40 – 400˚F)	620 Kg	<0.05	>1000 hours @50 microns
615 HTG #2 460	Calcium Sulfonate Complex	Mineral	2	460	>300˚C (>572˚F)	-40 – 204˚C (-40 – 400˚F)	500 Kg	<3.0	>1000 hours @50 microns
635 SXC	Calcium Sulfonate Complex	Synthetic (PAO)	2	100	318˚C (604˚F)	-40 – 240˚C (-40 – 464˚F)	800 Kg	<0.05	>1000 hours @50 microns
638 EMG 100	Calcium Sulfonate Complex	Synthetic (PAO)	2	100	318˚C (604˚F)	-40 – 240˚C (-40 – 464˚F)	800 Kg	<0.05	>1000 hours @50 microns
638 EMG 46	Calcium Sulfonate Complex	Synthetic (PAO)	2	46	318˚C (604˚F)	-40 – 240˚C (-40 – 464˚F)	620 Kg	<0.05	>1000 hours @50 microns
Food-Grade Grease									
Name	**Thickener**	**Base Oil**	**NLGI Grade**	**Base Oil Viscosity (ISO VG)**	**Dropping Point, ASTM D2265**	**Service Temperature**	**Four Ball Wear Weld Load, ASTM D2596**	**Water Washout Resistance, ASTM D1264**	**Corrosion Resistance, ASTM B117**
625 CXF	Calcium Sulfonate Complex	Mineral	2	100	318˚C (604˚F)	-30 – 204˚C (-22 – 400˚F)	620 Kg	<0.05	>1000 hours @50 microns
629 HTWG	Inorganic	Synthetic Mineral (PAO) Blend	2	220	260˚C (500˚F)	-34 – 204˚C (-29 – 400˚F)	160 Kg	<0.2	>50 hours @50 microns
630 SXCF	Calcium Sulfonate Complex	Synthetic (PAO)	2	46	318˚C (604˚F)	-40 – 240˚C (-40 – 464˚F)	620 Kg	<0.05	>1000 hours @50 microns
630 SXCF 220 #1	Calcium Sulfonate Complex	Synthetic (PAO)	1	220	316˚C (600˚F)	-40 – 240˚C (-40 – 464˚F)	400 Kg	<1.0	>1200 hours @50 microns

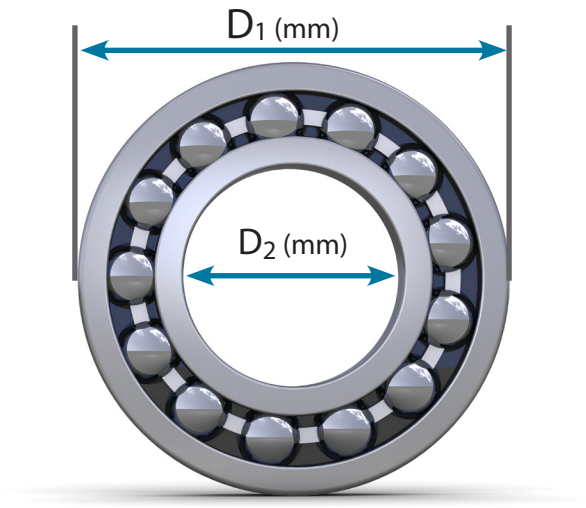
Other greases are available upon request.

Oil Selector Guide

Industrial-Grade Oil								
Name	**Base Oil**	**ISO VG (ASTM D2422)**	**Operating Temperature**	**Specific Gravity**	**Viscosity @ 40˚C (cSt) (ASTM D445)**	**Viscosity @100˚C (cSt) (ASTM D445)**	**Viscosity Index (ASTM D2270)**	**Pour Point (ASTM D97)**
601	Mineral	22	-23 – 150˚C (-10 – 300˚F)	0.90	22	4	58	-25˚C (-13˚F)
610 Plus	Synthetic (POE)	68	-25 – 270˚C (-13 – 520˚F)	0.99	61 – 75	9 – 11	130	-45˚C (-49˚F)
610 MT Plus	Synthetic (POE)	220	-25 – 270˚C (-13 – 520˚F)	0.98	220	22	130	-25˚C (-13˚F)
610 HT	Synthetic (POE)	460	-25 – 250˚C (-13 – 482˚F)	0.97	473	71	230	-40˚C (-40˚F)
651	Mineral	22	-23 – 150˚C (-10 – 300˚F)	0.90	22	4	58	-29˚C (-20˚F)
652	Mineral	22	-23 – 150˚C (-10 – 300˚F)	0.90	22	4	58	-25˚C (-13˚F)
Food-Grade Oil								
Name	**Base Oil**	**ISO VG (ASTM D2422)**	**Operating Temperature**	**Specific Gravity**	**Viscosity @ 40˚C (cSt) (ASTM D445)**	**Viscosity @100˚C (cSt) (ASTM D445)**	**Viscosity Index (ASTM D2270)**	**Pour Point (ASTM D97)**
690 FG	Mineral	22	-9 – 120˚C (16 – 248˚F)	0.88	22	<4	58	-40˚C (-40˚F)
650 AML	Plant-Basted Esters	22	-21 – 200˚C (-6 – 392˚F)	0.88	20.4	4.9	176	-21˚C (-6˚F)
720 CCG diluted	Polymer-Modified Synthetic	680	-20 – 215˚C (-4 – 419˚F)	0.91	707	57	143	N/D

Grease Selection Guide — Bearing Speed

Determine the NDm or speed factor for your application. Select the appropriate Chesterton grease according to the speed factor range.



To Calculate Speed Factor
NDm = RPM X (D1+D2)/2

Speed Factor (mm.rpm)	Grease	Base Oil Viscosity (ISO VG)
<50,000	615 HTG #2 460	460
75,000 – 300,000	615 HTG #1, #2	100
<50,000 – 150,000	630 SXCF 220 #1	220
50,000 – 300,000	622	100
50,000 – 300,000	629 HTWG	220
150,000 – 500,000	635 SXC	100
150,000 – 800,000	630 SXCF	46
150,000 – 500,000	638 EMG	100

- Consistency of grease and base oil viscosity is affected by temperature; for service temperatures <0°C (32°F) or >150°C (300°F) consult Chesterton Application Engineering.
- For information on setting mode based on RPM, see page 11.
- For Lubri-Cup dispensing mode and volume settings see page 12.

Grease Compatibility Guide

Chesterton greases have been tested and found to be compatible with many popular thickener technologies. The correct Chesterton grease can be selected from the charts below to optimize bearing performance and equipment life.

	615	625	630	635	638
Aluminum Complex	A	A	A	A	A
Barium Complex	C	C	C	C	C
Calcium Stearate	C	C	C	C	C
Calcium 12 Hydroxy	A	A	A	A	A
Calcium Complex	I	I	I	I	I
Calcium Sulfonate	C	C	C	C	C
Clay Non-soap	I	I	I	I	I
Lithium Stearate	A	A	A	A	A
Lithium 12 Hydroxy	A	A	A	A	A
Lithium Complex	C	C	C	C	C
Polyurea, Conventional	I	I	I	I	I
Polyurea, Shear Stable	C	C	C	C	C

Legend and Grease Chart Recommendations	
C	Compatible—*Grease may be installed directly.*
A	Acceptable—*Grease normally. Re-grease if oil bleed in 24 hours.*
I	Incompatible—*Old grease must be purged.*

Mode Setting Guides

Lubri-Cup may be set to the desired dispensing mode setting (month) based on an approximation of shaft diameter and RPM. The selection guides are based on clean, dry, and mechanically sound equipment conditions operating between 0°C (32°F) and 50°C (122°F). Please read all precautionary statements associated with the tables.

Lubri-Cup Mode Setting (Month) Guide for EM 120/125cc, 240/250cc, and 500cc

Shaft Size Diameter (mm)	RPM				
	<100	100 – 500	500 – 1250	1250 – 3000	>3000
<35	12	12	9	12 / 24	9 / 18
36 – 51	12	12	9	12 / 24	9 / 18
52 – 65	9	6 / 12	6 / 12	9 / 18	6 / 12
66 – 76	6 / 12	6 / 12	6 / 12	9 / 18	6 / 12
77 – 90	6 / 12	5 / 9	3 / 6	6 / 12	3 / 6
91 – 120	6 / 12	5 / 9	2 / 4	3 / 6	1 / 2
121 – 165	3 / 6	3 / 6	3 / 6	1 / 2	H
166 – 189	3 / 6	2 / 4	1 / 2	1	—
190 – 230	3 / 6	1 / 2	1	H	—
231 – 330	1 / 2	1	H	—	—

120/125cc 240/250cc 500cc

- *125cc setting(s) can be used with EM or VG mini units.*
- *Due to variables in application conditions, always confirm specific setting with Chesterton Application Engineering.*
- *For specific setting in cc/day, please consult Chesterton Application Engineering.*
- *Due to variables in application conditions (temperature, moisture, pH, load, and vibration) greasing volumes may be increased or decreased based on level of foreign particle contamination, degradation, and chemical attack.*
- *Please verify RPM for ALL LARGE BORE BEARINGS, >166 mm (6.5") in due to speed restrictions.*
- *Settings are approximations based on operating temperatures 10°C – 50°C (50°F – 122°F) and clean, dry conditions using Chesterton grease.*
- *Temperatures over 50°C (122°F): reduce setting by 50% per 10°C (50°F) increase. (Example 12 – 6 months)*
- *Temperatures below 0°C (32°F): increase setting by 2X per 10°C (50°F) decrease. (Example 3 – 6 months)*

As electric motors require significantly less grease than housing or pillow-block mounted bearings, please use the electric motor chart below.

Electric Motors (ONLY) Lubri-Cup Mode Setting (Month)

Shaft Size Diameter (mm)	RPM			
	100 – 500	500 – 1750	1750 – 3600	>3600
<35	12	9	6 / 12	6 / 12
36 – 51	9	6 / 12	5 / 9	5 / 9
52 – 65	6 / 12	5 / 9	5 / 9	6 / 12
66 – 76	5 / 9	6 / 12	6 / 12	9
77 – 90	6 / 12	6 / 12	5 / 9	3 / 6
91 – 102	3 / 6	3 / 6	3 / 6	3
103 – 165	3	3	3	3

60cc 120/125cc 240/250cc

- *125cc setting(s) can be used with EM or VG mini units.*
- *Due to variables in application conditions, always confirm specific setting with Chesterton Application Engineering.*
- *For specific setting in cc/day, please consult Chesterton Application Engineering.*
- *Due to variables in application conditions (temperature, moisture, pH, load, and vibration) greasing volumes may be increased or decreased based on level of foreign particle contamination, degradation, and chemical attack.*
- *Settings are approximations based on operating temperatures 10°C – 50°C (50°F – 122°F) and clean, dry conditions using Chesterton grease.*
- *Temperatures over 50°C (122°F): reduce setting by 50% per 10°C (50°F) increase. (Example: 12 – 6 months)*
- *Temperatures below 0°C (32°F): increase setting by 2X per 10°C (50°F) decrease. (Example: 3 – 6 months)*

Dispensing Volume Guides—EM Type

Lubri-Cup can be set to the desired dispensing volume based on bearing size, rpm, and operational conditions. The selection guide indicates the volume of grease dispensed based on the mode setting (month). The volume of grease needed for the bearing may be found in your equipment guide/manual. For more specific quantity and frequency recommendations, Chesterton Application Engineering can provide a tailored recommendation based on actual running conditions.

Mode/ Month	EM, EM-VS			EM	EM-S		EM-SP		EM-XPL	
	60cc	125cc	250cc	500cc	125cc	250cc	125cc	250cc	250cc	500cc
	grams/ day	grams/ day	grams/ day	grams/ day	grams/ day	grams/ day	grams/ day	grams/ day	grams/ day	grams/ day
H (Half Month)	—	—	—	33.4	8.3	16.7	8.3	16.7	—	—
1	2	4.2	8.3	16.7	4.2	8.3	4.2	8.3	8.3	16.7
2	1	2.1	4.2	8.3	2.1	4.2	2.1	4.2	4.2	8.3
3	0.67	1.4	2.8	—	1.4	2.8	1.4	2.8	2.8	5.5
4	0.5	1	2.1	4.2	—	—	1	2.1	—	—
5	0.41	0.83	1.7	—	—	—	0.83	1.7	—	—
6	0.34	0.7	1.4	2.8	0.7	1.4	0.7	1.4	1.4	2.8
7	0.3	0.6	1.2	—	—	—	0.6	1.2	—	—
8	0.25	0.5	1	—	—	—	0.5	1	—	—
9	0.22	0.45	0.9	—	—	—	0.45	0.9	0.92	1.8
10	0.2	0.42	0.8	—	—	—	0.42	0.8	—	—
11	0.18	0.38	0.75	—	—	—	0.38	0.75	—	—
12	0.17	0.35	0.7	1.4	0.35	0.7	0.35	0.7	0.7	1.4
18	—	—	—	0.93	—	—	—	—	—	—
24	—	—	—	0.7	—	—	—	—	—	—

- *Due to variables in application conditions, always confirm specific setting with Chesterton Application Engineering.*
- *For specific setting in cc/day, please consult Chesterton Application Engineering.*
- *Due to variables in application conditions (temperature, moisture, pH, load, and vibration) greasing volumes may be increased or decreased based on level of foreign particle contamination, degradation, and chemical attack.*

Dispensing Volume Guides—VG Type

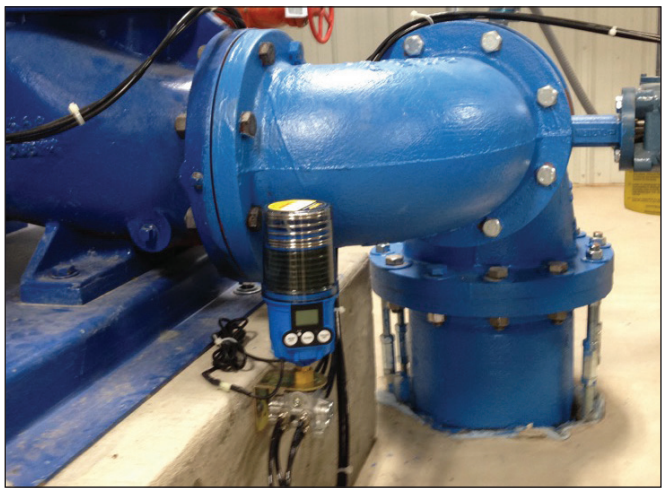
Mode/Month	VG Mini 120cc	VG 250cc
	grams/day	grams/day
1	4.1	8.3
2	—	4.2
3	1.35	2.8
6	0.7	1.4
9	0.45	—
12	0.35	0.7

- *Due to variables in application conditions, always confirm specific setting with Chesterton Application Engineering.*
- *For specific setting in cc/day, Please consult Chesterton Application Engineering.*
- *Due to variables in application conditions (temperature, moisture, pH, load, and vibration) greasing volumes may be increased or decreased based on level of foreign particle contamination, degradation, and chemical attack.*

Remote Installation Kits Ordering Information

Chesterton Lubri-Cup remote installation kits include 1 divider block, tubing in 10 feet increments (10 ft – 1 point, 20 ft –2 and 3 point; 30 ft – 3 and 4 point; 40 ft – 5, 6, 7, and 8 point), mounting bracket, screws, adapter, tube fitter, and washer (additional tubing available separately).

1 Point Installation Kit with Divider Block	2 Point Installation Kit with Divider Block	3 Point Installation Kit with Divider Block	4 Point Installation Kit with Divider Block	5 Point Installation Kit with Divider Block	6 Point Installation Kit with Divider Block	7 Point Installation Kit with Divider Block	8 Point Installation Kit with Divider Block
084345 Single Point Remote Install Kit with 630 SXCF	085601 Lubri-Cup EM 630 SXCF Kit	085613 Lubri-Cup EM SXCF 630 Kit	085619 Lubri-Cup EM SXCF 630 Kit	085628 Lubri-Cup EM SXCF 630 Kit	085637 Lubri-Cup EM SXCF 630 Kit	085643 Lubri-Cup EM SXCF 630 Kit	085649 Lubri-Cup EM 630 SXCF Kit
To order	085814 Lubri-Cup EM 630 SXCF 220 #1 Kit	To order	085815 Lubri-Cup EM 630 220 #1 Kit	To order	To order	To order	086506 Lubri-Cup EM 630 SXCF 220 #1 Kit
To order	085606 Lubri-Cup EM 615 HTG #1 Kit	085614 Lubri-Cup EM 615 HTG #1 Kit	085621 Lubri-Cup EM 615 HTG #1 Kit	085630 Lubri-Cup EM 615 HTG #1 Kit	085638 Lubri-Cup EM 615 HTG #1 Kit	085644 Lubri-Cup EM 615 HTG #1 Kit	085650 Lubri-Cup EM 615 HTG #1 Kit
084461 Single Point Remote Install Kit with 615 #2	085603 Lubri-Cup EM 615 HTG #2 Kit	085615 Lubri-Cup EM 615 HTG #2 Kit	085622 Lubri-Cup EM 615 HTG #2 Kit	085631 Lubri-Cup EM 615 HTG #2 Kit	085639 Lubri-Cup EM 615 HTG #2 Kit	085645 Lubri-Cup EM 615 HTG #2 Kit	085651 Lubri-Cup EM 615 HTG #2 Kit
084592 Single Point Remote Install Kit with 635 SXC	085609 Lubri-Cup EM 635 SXC Kit	085616 Lubri-Cup EM 635 SXC Kit	085625 Lubri-Cup EM 635 Kit	085632 Lubri-Cup EM 635 Kit	085640 Lubri-Cup EM 635 Kit	085646 Lubri-Cup EM 635 Kit	085652 Lubri-Cup EM 635 Kit
To order	085610 Lubri-Cup EM 625 CXF Kit	085617 Lubri-Cup EM 625 Kit	085626 Lubri-Cup EM 625 Kit	085633 Lubri-Cup EM 625 Kit	085641 Lubri-Cup EM 625 Kit	085647 Lubri-Cup EM 625 Kit	085653 Lubri-Cup EM 625 Kit
086688 Single Point Remote Install Kit with 615 #2 460	To order	To order	To order	To order	To order	To order	To order



EM-SP with multi-point remote install kit.

Multi-Point Remote Installation Warnings:
For remote installation, keep the maximum distance at 6 m (20 ft) or less.

Do not plug any open ports on the divider block. The kit or divider block must be ordered with the appropriate number of points required. For more information on the divider block, please refer to the *Multi-Point Remote Installation Manual*. Use the lithium battery pack for specific applications such as extremely cold temperature, long-period mode setting (18 m, 24 m), or multi-point remote installation for EM 500 ml unit.

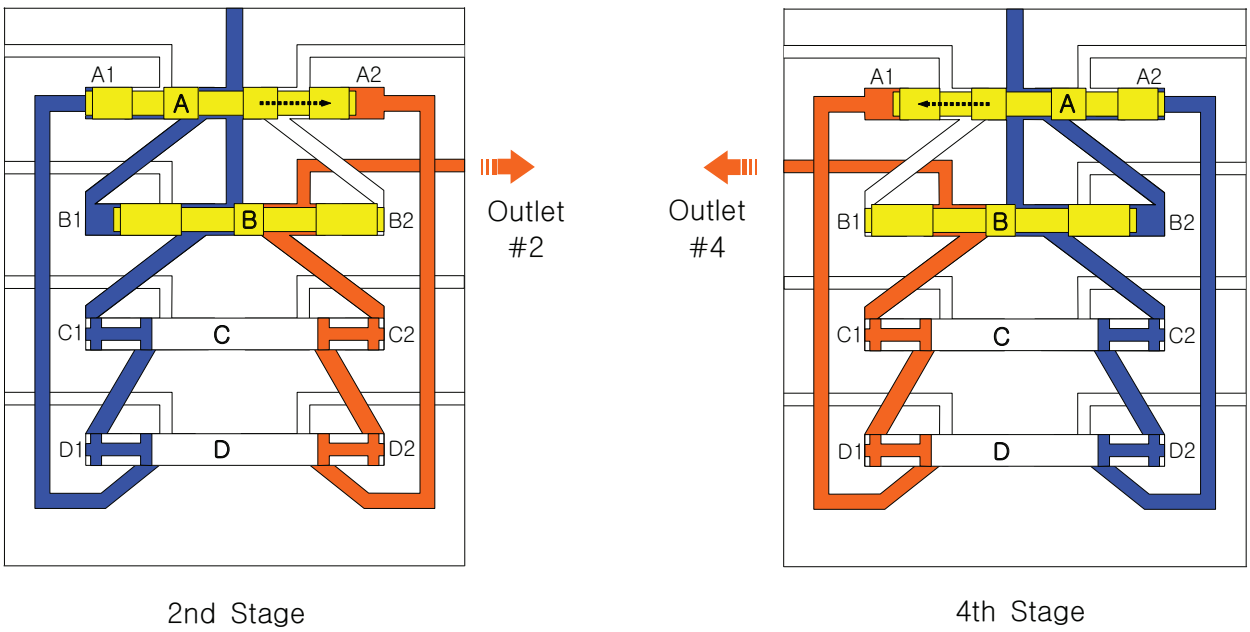
Remote Installation—Divider Blocks



Remote multi-point lubrication is available with the Lubri-Cup EM using a divider block. It is recommended to test the back pressure of the bearing, lube lines, and divider block after assembly by using a grease gun connected to a pressure gauge. Ensure the break-off pressure is below the average operating pressure of 30 kgf/cm^2 (425 psi). Flow is directed as the valve responds to pump actuation. See diagram. The Lubri-Cup EM and divider block allows for remote installation up to 6 m (20 ft). Experience safety, reliability, and simplicity with the Lubri-Cup EM and divider Block system.

The Chesterton Lubri-Cup EM, EM-S, and EM-SP are powerful enough to dispense lubricating grease for up to 8 bearing points. The available divider block is internally chambered and features a series of progressive/sequential valves to direct the lubricant to the desired bearing.

For additional information on remote installation/divider blocks, please consult Chesterton Application Engineering.



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Lubri-Cup™ Products—Feature Summary

Select the Lubri-Cup dispenser that best fulfills your application needs. Chesterton Application Engineers are always available to assist you.

Product	Model	Lubricant Volume	Dimensions	Available Dispensing Period	Max. Lube Points	Remote Installation	Operating Pressure	Operating Temperature Range	Certifications and Approvals
	**Lubri-Cup VG Mini**	120cc	77 mm (Ø 3.03") x 111 mm (4.37")	1, 3, 6, 9, 12 months	Single point only	Up to 1 m (3 ft)	Max 5 kgf/cm² (70 psi)	-20°C – 55°C (-4°F – 131°F)	UL: Class I, Div I, Group A, B, C, D. Class II, Div I, Group E, F, G IP: IP 68
	**Lubri-Cup VG**	250cc	97 mm (Ø 3.82") x 163 mm (6.42")	1, 2, 3, 6, 12 months	Single point only	Up to 1 m (3 ft)	Max 5 kgf/cm² (70 psi)	-20°C – 55°C (-4°F – 131°F)	UL: Class I, Div I, Group A, B, C, D IP: IP 68
	**Lubri-Cup EM**	60cc, 125cc	91 mm (Ø 3.58") x 181 mm (7.12")	1 – 12 months	Up to 8 points	Up to 6 m (20 ft) per point	Max 60 kgf/cm² (850 psi)	-15°C – 60°C (5°F – 140°F) with alkaline battery pack -40°C – 60°C (-40°F – 140°F) with lithium battery pack	—
		250cc	91 mm (Ø 3.58") x 210 mm (8.27")	1 – 12 months	Up to 8 points	Up to 6 m (20 ft) per point	Max 60 kgf/cm² (850 psi)	-15°C – 60°C (5°F – 140°F) with alkaline battery pack -40°C – 60°C (-40°F – 140°F) with lithium battery pack	—
		500cc	92 mm (Ø 3.62) x 260 mm (10.24")	Half (H) 1, 2, 3, 6, 12, 18, 24 months	Up to 8 points	Up to 6 m (20 ft) per point	Max 60 kgf/cm² (850 psi)	-15°C – 60°C (5°F – 140°F) with alkaline battery pack -40°C – 60°C (-40°F – 140°F) with lithium battery pack	—
	**Lubri-Cup EM-S & EM-SP**	125cc, 250cc	91mm (Ø 3.58") x 210 mm (8.27")	Half (H) 1, 2, 3, 6, 12 months	Up to 8 points	Up to 6 m (20 ft) per point	Max 60 kgf/cm² (850 psi)	-15°C – 60°C (5°F – 140°F) with alkaline battery pack -40°C – 60°C (-40°F – 140°F) with lithium battery pack	—
	**Lubri-Cup EM-VS**	60cc, 120cc, 240cc	91 mm (Ø 3.60") x 181 mm (7.13")	Up to 6 m (20 ft) per point	Up to 8 points	Up to 6 m (20 ft) per point	Max 60 kgf/cm² (850 psi)	-15˚C – 60˚C (5˚F –140˚F); with alkaline battery pack -40˚C – 60˚C (-40˚F –140˚F) with lithium battery pack	—
	**Lubri-Cup EM-XPL**	240cc, 480cc	91 mm (Ø 3.58") x 210 mm (8.27")	1 – 12 months	Up to 8 points	Up to 6 m (20 ft) per point	Max 60 kgf/cm² (850 psi)	-15°C – 60°C (5°F – 140°F)	Class I, Div. II, Group A, B, C, D, T4 Class II, Div. II, Group F, G, T4 ATEX: II 3 G/Ex ic IIB T4
	**Lubri-Cup OL 500 Oiler**	500cc	94 mm (Ø 3.7") x 229 mm (9")	1, 2, 3, 6, 12, 18, 24 months	Up to 8 points	Up to 12 m (40 ft) per point	Avg. 10 kgf/cm² (142 psi)	-15°C – 60°C (5°F – 140°F) with alkaline battery pack -40°C – 60°C (-40°F – 140°F) with lithium battery pack	—



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Chesterton's global capabilities include:

- Servicing plants in over 113 countries
- Global manufacturing operations
- More than 500 Service Centers and Sales Offices worldwide
- Over 1200 trained local Service Specialists and Technicians

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Lubri-Cup Brochure – English
5/26