

AUTO LUBE

HPS-240

#4532



Quality you can count on!

DATA SHEET

AUTO-LUBE HPS 240

A full featured battery powered, self-contained automatic lubricator that provides precise, reliable lubrication

General Description

The AUTO-LUBE HPS is a reusable, battery powered, electro-mechanical lubricator. It's constant 350psi lubricant output pressure allows the unit to be direct mounted, remote mounted up to 30 feet* away from the lube point, or coupled with a progressive distribution block to lubricate from 2 to 12** lube points. This model dispenses 240cc of lubricant and is self-contained, no external wiring required and can be used plant wide on a variety of applications.



Programming the HPS



The AUTO-LUBE HPS daily lubricant output is programmed using the simple AUTO FITTING system. The Red, White and Black timing rings determine how often the lubricator will cycle. The seven basic time settings required to handle most applications are programmed by using one, two or all three colored timing rings. To fine tune the lubricant output, you can adjust the piston stroke by installing the spacer washers into the AUTO fitting yielding 52 output settings. Once set and installed, the program is retained in the AUTO fitting allowing the user to install a different AUTO-LUBE HPS lubricator without having to reprogram the unit.

Operation

The AUTO-LUBE HPS metered positive displacement pump has been primed before shipment and is ready for use. On first installation, all fittings, lube lines and bearings should be pre-charged with the same lubricant that was ordered with the AUTO-LUBE HPS lubricator. Next, program the AUTO fitting to the appropriate output rate for your application. Screw the AUTO-LUBE HPS on the AUTO fitting. The HPS unit will cycle once and proceed to follow the program setting. Periodic visual inspection is recommended for all AUTO-LUBE lubricators.

When the lubricant cartridge is empty, unscrew the AUTO-LUBE HPS lubricator from the AUTO fitting. Place the unit on a firm surface, outlet end down. Push down on the clear plastic housing while turning the black plastic locking ring counter-clockwise. The housing and spring assembly will separate from the pump base. Remove the empty cartridge and battery pack and replace with a new one.

*Maximum lube line length is dependent on ambient temperature, grease type and application back pressure.

Benefits

Reduce production downtime by lubricating your equipment while in operation

Improve safety by remote mounting the lubricator up to 30 feet from the lube point from hazardous locations

Easily integrates with your current lubrication program

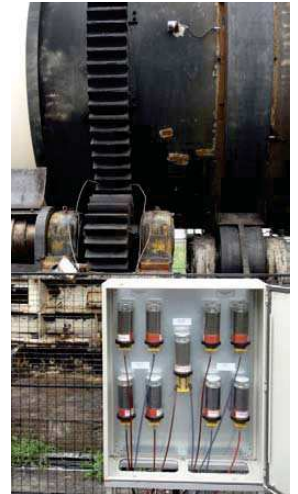
Reduce lubrication costs by utilizing "Minimal Lubrication Practices"

Specifications	
Operation:	Electro-Mechanical, positive displacement pump
Lubricant cartridge capacity:	240cc (Replaceable)
Compatible lubricants:	Specify lubricant
Connection thread:	1/4" NPT Male
Max operating pressure:	350psi (25 bar)
Temperature range:	5°F to 120°F (-15°C to 50°C)
Output timing settings:	52 Adjustable settings
Power supply:	4.5VDC Alkaline battery pack
External On/Off Control	No
Remote installation:	Up to 30 feet (9 meters), single-point*
Reusable:	Yes
Multi-Point compatible:	Yes
Warranty:	2 Year limited

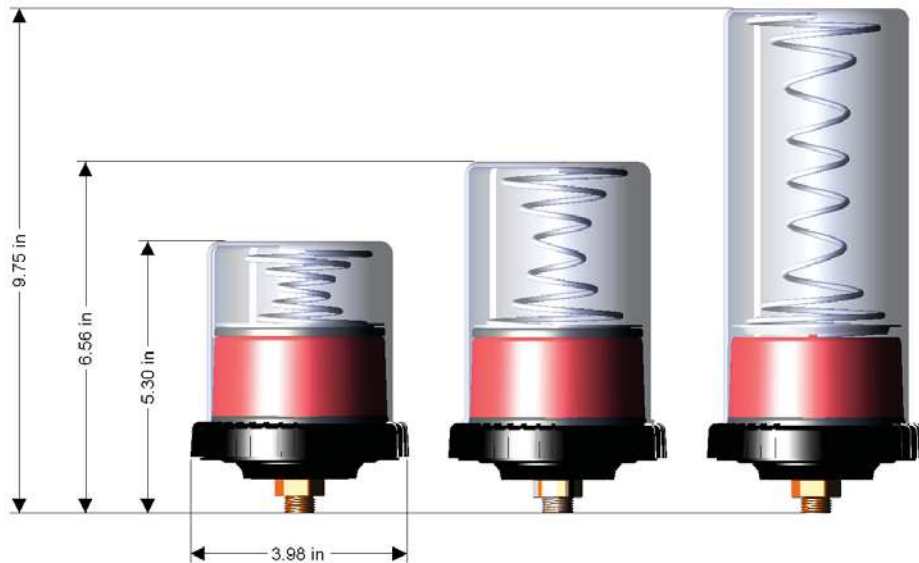
*Maximum lube line length is dependent on ambient temperature, grease type and application back pressure.

** Multi-Point Systems with more than 8 outlets have restrictions on tubing OD, tubing length and the viscosity of the lubricant.

Application Photo



Waste treatment facility



Accessories



Pre-filled Tubing



Protective Cover



Installation Kit



Quality you can count on!

Programming Your AUTO-LUBE HPS-240

General Description

The AUTO fitting regulates the daily grease output of the AUTO-LUBE HPS lubricators. The kit consists of a brass adapter, a black plastic timing-ring holder, a red, a white and a black plastic timing ring, and eight stroke limiting washers. Once the AUTO fitting is programmed it is installed on the lube point, or on a mounting bracket if remote mounting is necessary.

Programming the AUTO FITTING

The AUTO-LUBE daily lubricant output is programmed using the simple AUTO fitting system. The AUTO fitting can be programmed to control both the **frequency** of lube cycles and the **volume** of lubricant discharged.

Frequency Setting of the AUTO FITTING

The red, white and black plastic timing rings are used to set the frequency of lube cycles. They are inserted into the black plastic ring-holder either individually or in combination to obtain the desired frequency of output cycles.

See the "Basic Settings Chart" on next page

When the AUTO-LUBE lubricator is screwed down onto the brass AUTO fitting the timing rings depress the switches located on the bottom of the lubricator. Depressing one or more of the switches will activate the lubricator and dictate how often the lubricator will cycle over 24 hour period.

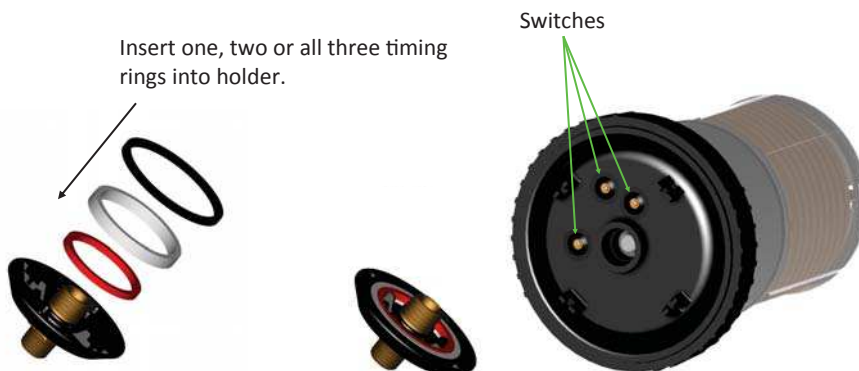


BENEFITS

Programming stays at the lube point - no settings to remember

Mechanical connection - no failing electrical connections

AUTO fitting available in 1/8" or 1/4" NPT threads



These seven **Basic Settings** can accommodate most application requirements.

<i>MEMO System - Basic Frequency Settings</i>						
Colored timing rings	Strokes per day	CC's per stroke	Daily Output in CC's	Model 120 Months to empty	Model 240 Months to empty	Model 480 Months to empty
R W B	24	0.63	15.1	N/A	0.5	1
R W	12	0.63	7.6	0.5	1	2
R B	4	0.63	2.5	1.5	3	6
R	2	0.63	1.3	3	6	12
W B	1.5	0.63	1	4	8	16
W	1	0.63	0.6	6	12	24
B	0.5*	0.63	0.3	12	24	N/A

*Lubrication cycles every other day (48 hours)

Volumetric Setting of the AUTO FITTING



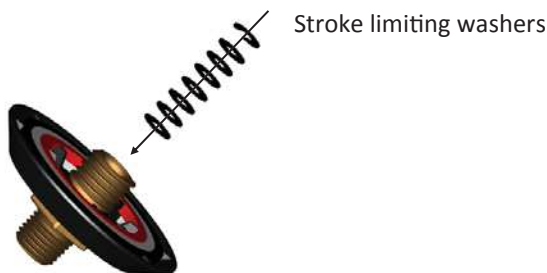
A set of special stroke-limiting washers is supplied with each AUTO-LUBE for use in programming the volume of lubricant ejected on each output cycle.

When the AUTO fitting is used without washers (yielding full piston stroke), the output volume at each stroke is 0.635cc. For each washer inserted into the brass AUTO fitting, the output volume will decrease by 0.04cc per stroke. A maximum of 8 washers (including a locking washer) can be inserted into the brass AUTO fitting. If the stroke-limiting washers are used, the locking washer should be inserted last to hold the others in place. If only one washer is used, use the locking washer.

Using the volumetric program settings described above, and the frequency settings shown, allows you to “Fine Tune” your AUTO-LUBE lubricator to achieve 52 different rates of lubricant output.

See the “Fine Tuning Chart” on next page

The program settings can be changed at any time, should you decide that a bearing requires more or less lubricant.



FINE TUNING THE AUTO FITTING SYSTEM

Timing Ring Color

R=Red **W**=White **B**=Black

Model 120
120cc Capacity

Model 240
240cc Capacity

Model 480
480cc Capacity

Timing Rings	# Of Washers	CC's Per Stroke	Daily Output in CC's	Days To Empty	Weeks To Empty	Months To Empty	Days To Empty	Weeks To Empty	Months To Empty	Days To Empty	Weeks To Empty	Months To Empty
R W B 24 Strokes Per Day												
	0	0.63	15.12	7.9	1		15.9	2	0.5	31.7	4	1
	1	0.59	14.16	8.5	1		16.9	2		33.9	4	
	2	0.55	13.20	9.1	1		18.2	3		36.4	5	
	3	0.51	12.24	9.8	1		19.6	3		39.2	5	
	4	0.47	11.28	10.6	1		21.3	3		42.6	6	
	5	0.43	10.32	11.6	1		23.3	3		46.5	6	
	6	0.39	9.36	12.8	1		25.6	4		51.3	7	
	7	0.35	8.40	14.3	2		28.6	4		57.1	8	
R W 12 Strokes Per Day												
	0	0.63	7.56	15.9	2	0.5	31.7	5	1	63.5	9	2
	1	0.59	7.08	16.9	2		33.9	5		67.8	9	
	2	0.55	6.60	18.2	2		36.4	5		72.7	10	
	3	0.51	6.12	19.6	2		39.2	6		78.4	11	
	4	0.47	5.64	21.3	3		42.6	6		85.1	12	
	5	0.43	5.16	23.3	3		46.5	7		93.0	13	3
	6	0.39	4.68	25.6	3		51.3	7		102.6	14	
	7	0.35	4.20	28.6	4		57.1	8		114.3	16	
	8	0.31	3.72	32.3	4	1	64.5	9	2	129.0	18	4
R B 4 Strokes Per Day												
	0	0.63	2.52	47.6	6	1.5	95.2	12	3	190.5	27	6
	1	0.59	2.36	50.8	7		101.7	14		203.4	29	
	2	0.55	2.20	54.5	8		109.1	15		218.2	31	
	3	0.51	2.04	58.8	8		117.6	17		235.3	33	
	4	0.47	1.88	63.8	9		127.7	18		255.3	36	
	5	0.43	1.72	69.8	10		139.5	20		279.1	39	
	6	0.39	1.56	76.9	11		153.8	22		307.7	43	
	7	0.35	1.40	85.7	12		171.4	24		342.9	49	
R 2 Strokes Per Day												
	0	0.63	1.26	95.2	13	3	190.5	26	6	381.0	54	12
	1	0.59	1.18	101.7	14		203.4	28		406.8	58	
	2	0.55	1.10	109.1	15		218.2	30		436.4	62	
	3	0.51	1.02	117.6	16		235.3	32		470.6	67	
W B 1.5 Strokes Per Day**												
	0	0.63	0.95	127.0	18	4	254.0	36	8	507.9	72	16
	1	0.59	0.89	135.6	19		271.2	38		542.4	77	
	2	0.55	0.83	145.5	20		290.9	40		581.8	83	
	3	0.51	0.77	156.9	22		313.7	44		627.5	89	
	4	0.47	0.71	170.2	24		340.4	48		680.9	97	
	5	0.43	0.65	186.0	26		372.1	52		744.2	106	
W 1 Strokes Per Day												
	0	0.63	0.63	190.5	27	6	381.0	54	12	761.9	108	24
	1	0.59	0.59	203.4	29		406.8	58				
	2	0.55	0.55	218.2	31		436.4	62				
	3	0.51	0.51	235.3	33		470.6	66				
	4	0.47	0.47	255.3	36		510.6	72				
	5	0.43	0.43	279.1	39	9	558.1	78	18			
	6	0.39	0.39	307.7	44		615.4	88				
	7	0.35	0.35	342.9	49		685.7	98				
B 0.5 Strokes Per Day***												
	0	0.63	0.32	381.0	54	12	761.9	108	24			
	1	0.59	0.30	406.8	58							
	2	0.55	0.28	436.4	62							
	3	0.51	0.26	470.6	67							
	4	0.47	0.24	510.6	73							
	5	0.43	0.22	558.1	79	18						
	6	0.39	0.20	615.4	87							
	7	0.35	0.18	685.7	97							
	8	0.31	0.16	774.2	110	24						

Exploded View

