



OPERATING INSTRUCTIONS

MEMOLUB® HPS permanent, automatic lubrication systems are designed to increase the reliability of your plant and to cut lubrication cost.

OPERATING PRINCIPLE:

MEMOLUB® HPS is a precision, electro mechanical dosing pump which supplies a single pump-stroke of lubricant at up to 25 bar pressure. It offers seven easy to select lube intervals (every 1, 2, 6, 12, 16, 24, 48 hours) and eight (7+1) piston-stroke positions, providing 56 potential combinations. The volume delivered daily ranges from 0.17 - 15.12cc. Each lube cycle takes about 7 seconds. The onboard electronic program controls the lube cycle. Lubricant is supplied in 120cc or 240cc **MEMOLUB®** cartridges. The 4.5V power pack (Part No. MH015) must be changed every time a cartridge is replaced or at least every 12 months if the interval selected is longer than a year.

MEMOLUB® HPS units are fully tested at assembly and shipped empty. The units are factory-set for maximum daily output of 15.12cc i.e. hourly lube cycle and full stroke. This setting requires a RED + WHITE + BLACK timing ring and NO stroke-regulating washers. See table on page 4 for all available output settings to choose from.

MEMOLUB® HPS units are designed to operate across a temperature range of -15° C to +55° C. The attached WARRANTY sheet provides details of the 24-months product warranty.

FIRST INSTALLATION:

1. Grease bearing with grease gun to ensure passage is not blocked.
2. Remove grease nipple and replace it with the MEMO fitting – its special 1/4 BSP thread gives it a superior hold on the bearing housing. If the grease nipple has a 1/8 BSP thread, change the 1/4 BSP adaptor to the 1/8 BSP included with the unit.
3. Decide how much fresh grease you wish to supply DAILY to the bearing (see set-up table on page 4). Then fit ONE or MORE timing ring(s) to provide the particular combination of interval/volume that will supply this DAILY amount.
4. Load the **MEMOLUB® HPS** pump body with a 120cc or 240cc grease cartridge and 4.5V power pack (Part No. MH015). To open the unit place the pump body on a flat surface, press the transparent housing downward with one hand, while the other hand squeezes the "rippled" part of the locking ring anticlockwise. The ring is now unlocked and the transparent housing should easily open up. Insert the 4.5 volt power pack into the battery compartment, with the pull out strip pointing upwards as shown on the pump.

Remove the plug from the lube cartridge and compress it slightly until grease just appears at the outlet. Position the cartridge outlet onto the pump suction inlet. Make sure the black rubber disc is on top of the pump body sealing off the battery compartment.

Insert the cartridge compression spring with its larger diameter first into the transparent housing (the clipped on pressure plate is facing the cartridge) and slip over the locking ring. Now mount this entire assembly over the **MEMOLUB® HPS** pumpbody. Press the transparent housing FIRMLY DOWN until it meets the end position (pump ridge) then with the other hand turn the locking ring grip area CLOCKWISE to lock it. You should feel/hear a firm "CLICK".

5. Screw down the **MEMOLUB® HPS** pump body onto the provided fitting (MEMO) by gripping only on the smooth part of the locking ring. One full pump cycle will be immediately activated depending on the timing ring(s) selected the subsequent lube cycles follow automatically. The timing ring(s) control all subsequent cycles.

6. If lubrication is not required for a period of time, for example during holidays or a plant shut down the unit can be deactivated by unscrewing the **MEMOLUB® HPS** pump body by more than 90 degrees. When screwed down again, it will activate immediately one full pump stroke (audible to the operator) before resuming its normal lubrication interval.

CHANGE OF PRODUCT CARTRIDGE

When the product cartridge is empty and needs changing, the 4.5V power pack **MUST ALWAYS** be changed at the same time or at least every 12 months to ensure reliable operation. Replacement MEMOLUB® HPS product cartridges and MEMOLUB® HPS powerpacks are supplied as one kit and come in boxes of 10 (120cc) and 10 (240cc) cartridges.

CHANGE OF PRODUCT OUTPUT PER DAY

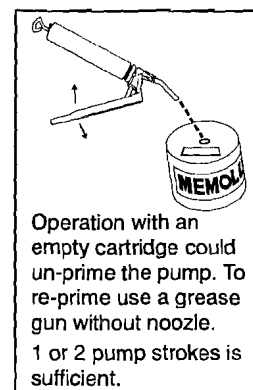
To increase or to reduce the MEMOLUB® HPS's daily output simply change the color-coded timing ring combination - see table on page 4. Output can also be varied by changing the pump stroke. To change the stroke (lube quantity) unscrew the MEMO fitting from the bearing housing and remove all the regulating washers including the retaining clip from the MEMO fitting if there are any. This can easily be done by a small screw driver pushing out the washers in the same direction as they were inserted. Now insert the appropriate number of stroke-regulating washers, as per the table on Page 4. Do not forget the retaining clip. Screw the MEMO fitting back onto the bearing housing, tighten it thoroughly, and then reattach the MEMOLUB® HPS pump body.

FUNCTION TEST

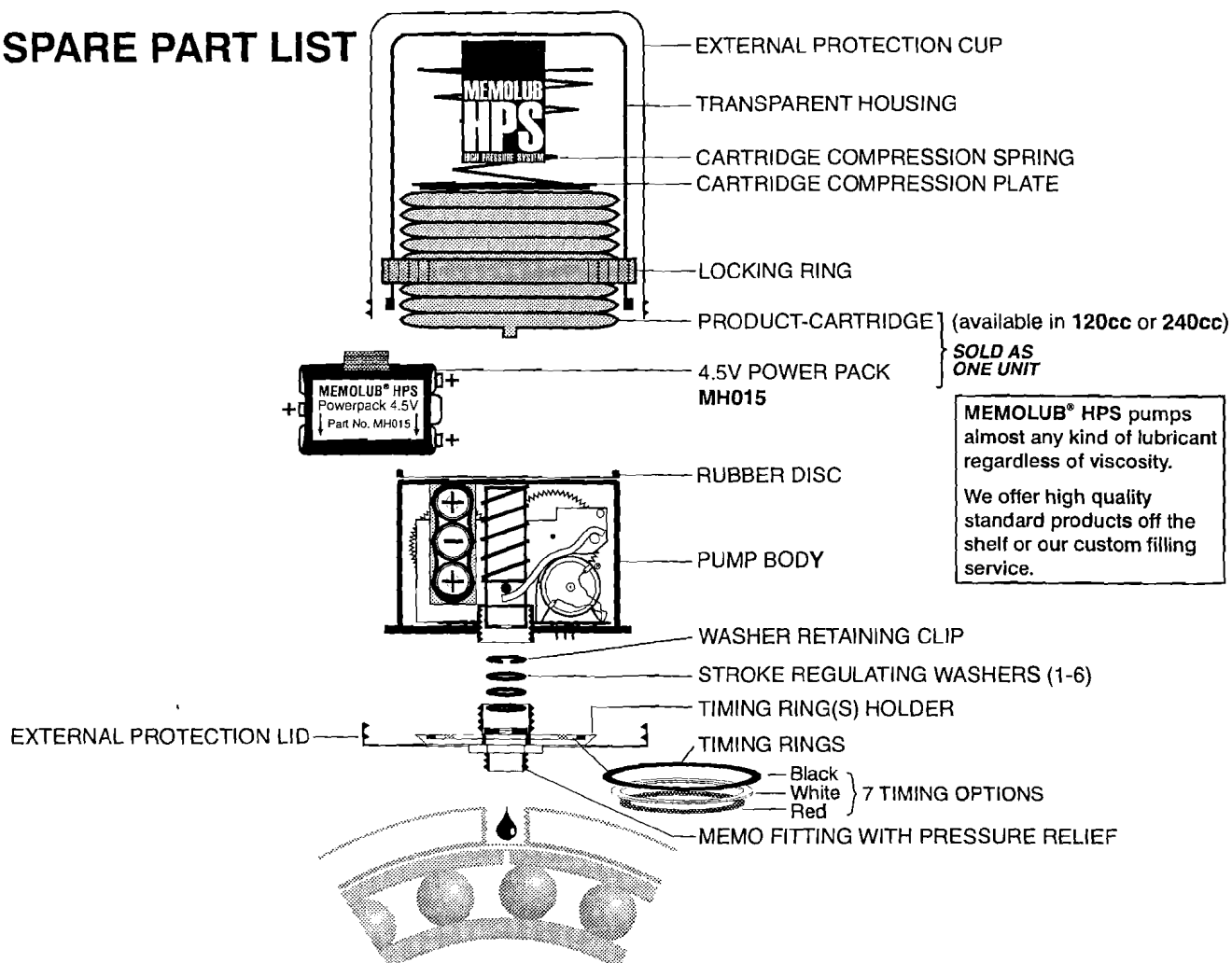
UNSCREWING the MEMOLUB® HPS pump body by more than 90 degrees and then screwing it down again activates one pump stroke immediately, which should be audible. If the environment is too noisy or you want to check the MEMOLUB® HPS away from the application simply press ANY of the three TIMING ACTIVATION PINS located under the pump body. You should be able to hear one seven second cycle and see the product being expelled from the piston.

TROUBLE SHOOTING

- MEMOLUB® won't start (activate) - NO 4.5V POWERPACK fitted
- Powerpack empty or low (should never happen if replaced as required)
 - The coloured TIMING RINGS are missing from the MEMO fitting
 - MEMO fitting has turned itself loose (MEMO fitting must be tightly screwed to the bearing housing)
- MEMOLUB® won't pump - Product cartridge not primed correctly during assembly (see point 4)
- Product cartridge empty
- DO NOT - Operate MEMOLUB® HPS without a product cartridge inserted
- Operate outside temperature range of -15° C to +55° C
 - Submerge MEMOLUB® HPS
 - Place MEMOLUB® HPS in a hostile chemical environment
 - Subject MEMOLUB® HPS to excessive vibration (mount it remotely if necessary)
 - Tamper with or mistreat MEMOLUB® HPS



SPARE PART LIST



MEMOLUB® HPS pumps almost any kind of lubricant regardless of viscosity.

We offer high quality standard products off the shelf or our custom filling service.

MEMOLUB® HPS MEMO SET-UP TABLE (CC/DAY)							
TIMING RINGS	B 1/48H	W 1/24H	B+W 1/16H	R 1/12H	R+B 1/6H	R+W 1/2H	R+W+B 1/1H
STROKE WASHERS							
NONE	0.31	0.63	0.94	1.26	2.52	7.56	15.12
CLIP	0.29	0.59	0.88	1.18	2.36	7.08	14.16
1+CLIP	0.27	0.55	0.82	1.10	2.20	6.60	13.20
2+CLIP	0.25	0.51	0.76	1.02	2.04	6.12	12.24
3+CLIP	0.23	0.47	0.70	0.94	1.88	5.64	11.28
4+CLIP	0.21	0.43	0.64	0.86	1.72	5.16	10.32
5+CLIP	0.19	0.39	0.58	0.78	1.56	4.68	9.36
6+CLIP	0.17	0.35	0.52	0.70	1.40	4.20	8.40

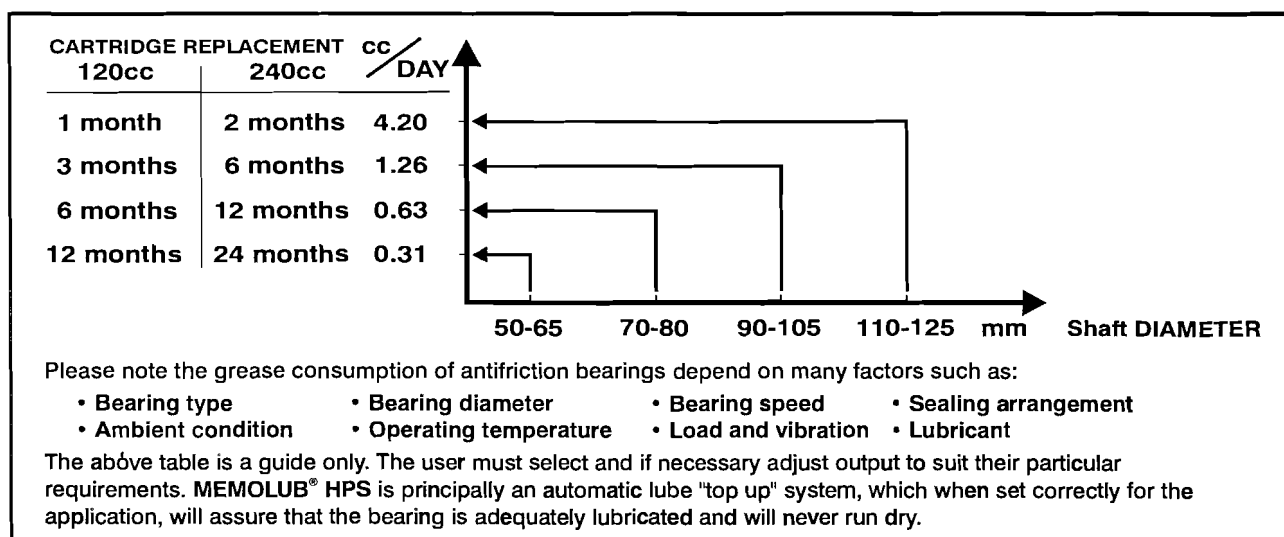
Timing rings and combinations: **B=Black, W=White, R=Red.**

QUICK CARTRIDGE OUTPUT SELECTION TABLE (FULL STROKE)			
Duration 240cc (120cc half)	Output (cc/day)	Timing ring(s)	Lube cycle (h)
15 days	15.12	red+white+black	1
1 month	7.56	red+white	2
3 months	2.52	red+black	6
6 months	1.26	red	12
8 months	0.94	black+white	16
12 months	0.63	white	24
24 months	(0.31)*	black	48

*One lube cycle of 0.63cc every second day. Powerpack must be changed at least every 12 months or together with the lube cartridge. Accuracy \pm 3%.

MEMOLUB® HPS

SET UP GUIDE FOR BALL AND ROLLER BEARINGS



Specifications are subject to alteration without notice.



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Control**

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