

MULTI-LINE SYSTEMS

The multi-line system is a straightforward and highly effective system for centralised lubrication. Each bearing point is supplied directly from the pumping unit via an individual feed line. Inside the pump a cam rotates and operates the pumping units sequentially as it turns, and also operates the paddle blade which draws grease into the pumping chamber.

The feed lines are run as a loom along the vehicle and lines branch off to each separate point. It is a simple system that is straightforward to install and requires no distribution or manifold blocks. Individual bearing lubrication means that should a line break, only that point is affected, not the complete system.

The system is capable of handling lubricants from SAE80/90 oil up to and including NLGI grade 2 grease. The system generally runs at low pressure, typically 3-4 bar. The feed lines are 4mm OD semi rigid black nylon tube, UV stabilised, rated 140 Bar (14 N/m). Fittings used at bearing point are generally the pushfit type, although compression fittings are also available. System monitoring is possible by means of a cam rotation switch.



AC 1

PUMPING UNITS

Positive displacement pumping units are available in six different stroke outputs to cater for varying output requirements, and are colour coded for easy identification. They are supplied complete with outlet fittings suitable for 4mm, 6mm & 3/16" OD tubing, max pressure rated to 120 bar 12n/M.

Colour	Stroke output cc	For 4mm tube	For 3/16" tube	For 6mm tube
Red	0.010	78033	78043	78053
Green	0.015	78034	78044	78054
Yellow	0.025	78035	78045	78055
Blue	0.040	78036	78046	78056
Grey	0.060	78037	78047	78057
Black	0.100	78038	78048	78058

Blanking plug for unused outlets 34237-402



The operating parameters for Multiline pumps with standard greases are shown below:

LUBRICANT	
NLGI Grade 2	Down to 10°F / -12°C
NLGI Grade 1	Down to 0°F / -18°C
NLGI Grade 0	Down to -10°F / -23°C
NLGI Grade 00	Down to -20°F / -29°C
NLGI Grade 000	Down to -30°F / -35°C
Do not use heavy, tackified greases or Bentone (clay based) high temperature grease.	
Upper Temp Limit on all pumps +40°C	

A full list of fittings and spares for multi-line systems can be found in the 'AC Service Manual'. For information regarding Installation of multi-line systems, a separate booklet is available.

Systems can be supplied as complete kits to suit specific applications

Typical applications include tippers, refuse vehicles, sweepers, trailers, and cranes.



MULTI-LINE SYSTEM - AC RANGE

The AC range of pumps are compact electrically operated multi-line pumps which come in two versions with three reservoir sizes. They are a simple but highly effective pump that will provide reliable and virtually maintenance free operation in a wide variety of applications

- Electrically operated 12/24V DC
- Suitable for use with oil and grease upto and including NLGI grade II
- Serves upto 60 points (over 60 consult Interlube)
- Six colour coded pumping units available with different outputs
- Multi position timer with memory
- Manual override on all models

AC1 & AC2

Maximum 36
Lubrication Points



AC 2

AC3 (3 Litre Reservoir)

Maximum 60
Lubrication Points



AC 3

Ordering Method AC1 X X X (1.25 Litre reservoir)
AC2 X X X (2 Litre reservoir)

Cycle Time	1 12V. D.C.	1 12 Points
1 2.5 Mins*	2 24V. D.C.	2 24 Points
2 9 Mins		3 36 Points**
3 12 Mins		
4 15 Mins		

** Suitable for oil and fluid grease up to 000 grade only

- 1 Continuous operation – 0.4rpm
2 3 4 Cycle time includes run time of 2.5mins & delay period
*A faster motor with a speed of 0.75rpm is available giving a continuous cycle time of 1.33rpm

Ordering Method AC3 X X X / X

Delay Period	1 12V.	1 12 Points
0 Continuous double speed	2 24V.	2 24 Points
1 Continuous standard speed*		3 36 Points
2 3 Minute delay		4 48 Points
3 7 Minute delay		5 60 Points
4 11 Minute delay		
5 15 Minute delay		
6 19 Minute delay		
7 24 Minute delay		
8 30 Minute delay		
9 36 Minute delay		

- 1 Grease Nipple Filler
2 Quick Release Coupling
3 Dual Fill

*Standard motor speed 0.9rpm

The pumps are connected directly to the ignition feed or PTO of a vehicle, and operate whenever the ignition is switched on. The pumps can be set to run with a variable time delay, or to run constantly whenever they are live. This is particularly useful where the power feed is intermittent and can be used for applications such as cranes or trailers.. A memory built into the pumps PCB means that the pump will continue at the same stage of the cycle whenever power is switched off and back on. All pumps have a manual override facility. The AC1 & AC2 with 1.25 and 2 litre reservoirs respectively, and have a lid which houses the motor and PCB. They can be filled via a filler cap in the lid or using the adaptor on the base of the pump. The AC3 has a 3 litre reservoir and has the motor and PCB mounted at the bottom of the pump. It also has the option of a low level sensor and is available with a grease nipple, quick fill or dual fill option.

Typical fill intervals

AC2 12 points pumping unit blue (0.04) 12 min cycle time – 833 hours / 21 weeks

AC2 20 points pumping unit blue (0.04) 15 min cycle time – 625 hours / 16 weeks

AC3 36 points pumping unit blue (0.04) 15 min cycle time – 520 hours / 13 weeks *Based on 40 hour week*

For further technical information a service and maintenance manual is available for the AC Range.