



LUBE
Control

Lube Control Pty Ltd

ILC MAX PUMPING ELEMENTS



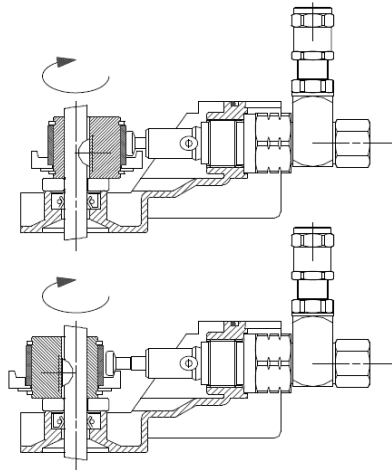
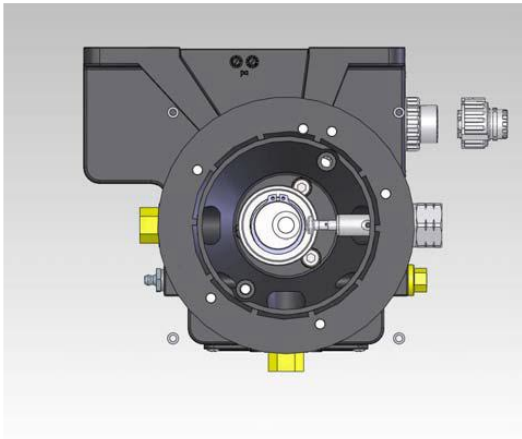
90.900.0



90.900.3

ILC MAX PUMPING ELEMENTS

ILC Max pumping elements are the heart of the ILC MAX Lubricator to deliver at over 200Bar pressure grease. Both fixed and adjustable pumping elements are available. The direct mounted electric geared motor drives an internal rotating cam, which can actuate up to three externally mounted pump elements.



Discharge amount for ILC MAX pumping elements

90.900.0	ILC Max fixed pumping elements	Discharge/min	3.68 cm ³ (12 V DC) 3.52 cm ³ (24 V DC) 4.64 cm ³ (230 V AC)
90.900.3	ILC Max adjustable pumping elements	Discharge/min	0.23 – 3.68 cm ³ (12 V DC) 0.22 – 3.52 cm ³ (24 V DC) 0.29 – 4.64 cm ³ (230 V AC))



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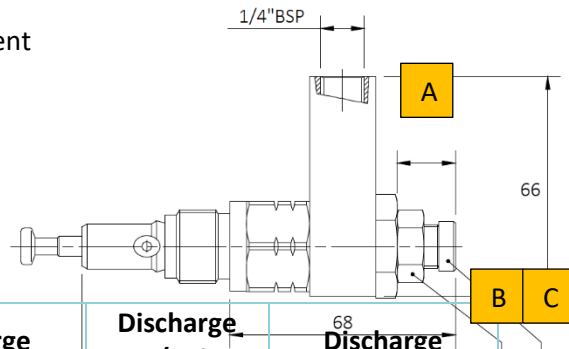
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Adjusting the adjustable pumping element

To adjust the discharge from the adjustable pumping element

1. Loosen the lock nut
2. Adjust the distance A by turning the adjusting screw B in or out using the table below

Note: the "A" must not be more than 23.6mm



Length (mm)	Cc/cycle	Percentage	Discharge cc/min 12VDC	Discharge cc/ min 24VDC	Discharge cc/min 230VDC
23.6	0.16	100%	3.68	3.52	4.64
22.5	0.12	75%	2.76	2.64	3.48
21	0.08	50%	1.84	1.76	2.32
19.5	0.04	25%	0.92	0.88	1.16
18.5	0.01	6%	0.23	0.22	0.29
17.5	0	0%	0	0	0

Changing the pump elements

Pumping Element Removal (Fig A)

To remove the pumping element: Loosen the assembly, then tilt it so the head of the piston is turned up. Gently remove the assembly, taking care to not allow the piston to remain in the cavity (Fig A point 1).

Pumping Element Insertion (Fig B)

Clean the port of lubricant. Then position the cam so that it is at it's highest point where you are inserting the pumping element. Gently insert the pumping element (as seen in Figure A point 1) with the piston extended. Drop the piston down into the groove of the cam. (Fig B) You should feel some resistance as you pull the assembly in and out. Caution: Do not pull the assembly out too far, as you will drop the piston into the cavity.

If you are confident that the piston is engaged, then screw the pumping element into the body of the pump. It may take a few revolutions to prime and pump grease.

Verify grease output. The torque wrench setting for the sealing plug and the pumping element should not be more than 25-30 newton per meter.

Adjusting the relief valve (Fig C)

Each pumping element incorporates an adjustable relief valve to protect against overpressure. The relief setting can be adjusted by loosening the locking nut (Fig C point 2) and turning the setscrew (Figure C point 1) clockwise to increase the relief pressure (adjustable from 60 to 400 bar) and counter clockwise to decrease the relief pressure, as required by the system application.

The factory setting for the relief valve is set to 200bar

