SJSP
Electric Lubricating Pump
For 35911

Operation Instructions

Before operation, please carefully read Product Operation Instructions. Improper operation may cause product damages or personnel injuries.

Before production inspection and maintenance, please cut off power.

During wiring, make sure that the shell of the product is correctly grounded. Otherwise, serious product damages may be caused.

Contents

I. Overview

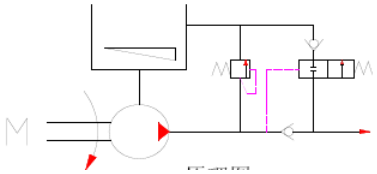
The JSP electric lubricating pump for 35911 is driven through DC12V power and can continuously output lubricant through reciprocating motion of a piston through a DC12V motor and mechanical transmission. The pump is equipped with a solenoid relief valve. Together with any positive displacement injector, the pump can form a PDI centralized lubrication system. Under the control of a program controller, the lubricant can be quantitatively delivered to each lubricating point at fixed time. An overflow valve is built in the pump and can effectively protect the lubrication system.

The JSP electric lubricating pump is widely applied to intermittent centralized lubrication systems of mechanical equipment such as plastic, forging and pressing and universal machine tools.

II. Working Principle

The motor (DC12V) is reduced through a reduction gearbox, drives an eccentric wheel and a link mechanism and drives the piston to do reciprocating linear motion, so that the lubricant in a reservoir is continuously delivered to enter the lubrication system; the lubricant delivered by the pump enters a distribution element through an outlet and pipeline; After the distribution element is full of the lubricant and up pressure from system to setting, a signal transmission switch in the system acts, the program controller control the motor to stop running, the solenoid relief valve simultaneously acts to relieve the pressure of the system and thus the entire system finishes an injection process.

Note: the solenoid relief valve is in a closed state when being powered on and is in an opened state when being powered off.



Schematic diagram

III. Technical Parameter and External Dimension

1. Technical parameters

Rated pressure: 3MPa
Motor voltage: DC12V
Motor power: DC 50W
Outlet thread: NPT1/8
Operating temperature range: -20℃ to 60℃
Maximum delivery: 25ml/min
Lubricant use range: Oil: N32-460
Reservoir volume: 2L

2. External dimension

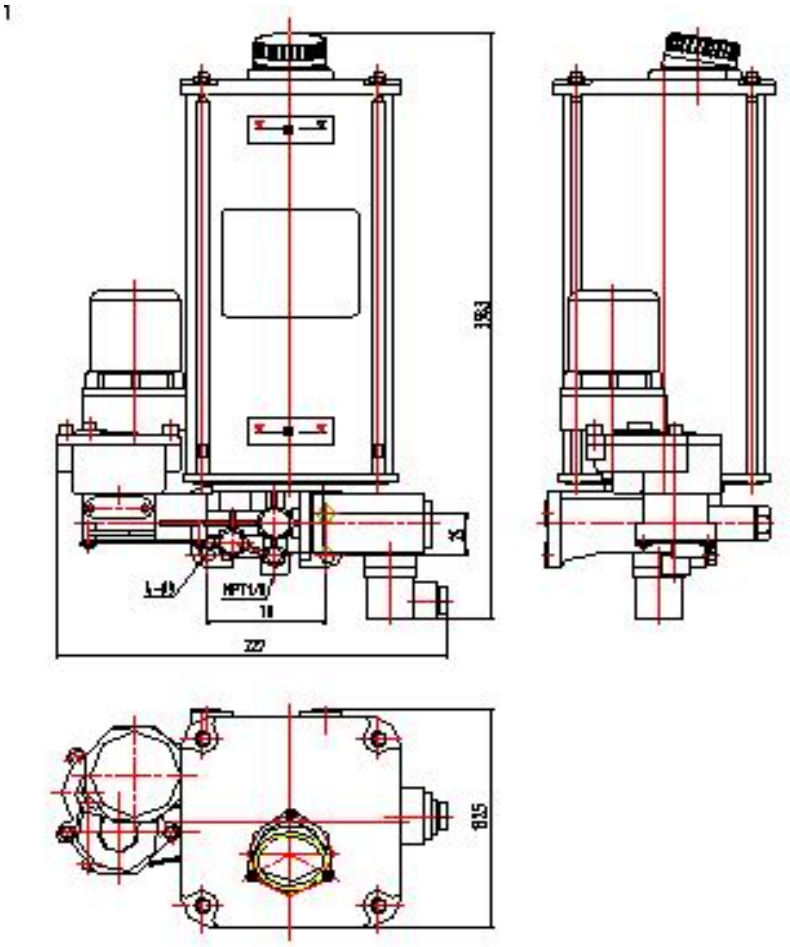
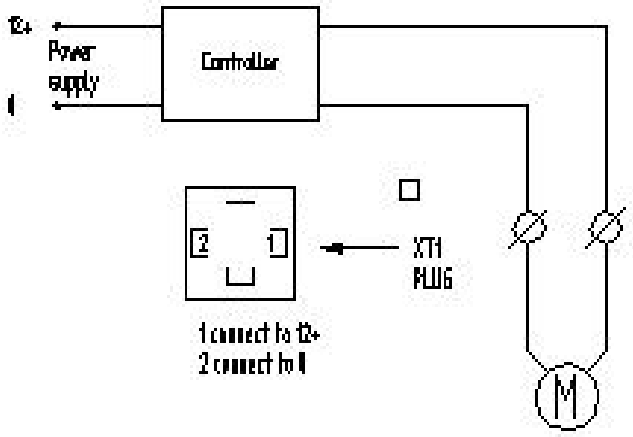


Fig.1 External view for 35911

IV. Installation and Commissioning

1. Fix the pump according to the above-mentioned drawings and installation dimensions;
2. Fill lubricant into the pump through the filling port according to the above-mentioned drawings and make sure to use clean lubricant with viscosity within a designated range;
3. Connect each electric wire to the program controller (pay attention to that power voltage shall be consistent with the voltage of the motor and the unloading valve);
4. Check whether connection positions and bent positions in the system comply with requirements or not and confirm the correctness of electric wire connection;
5. Start up the pump, unscrew the vent valve for exhaust according to the above-mentioned drawings until air in the pump is fully exhausted and the lubricant continuously comes out from the port of the vent valve, and simultaneously observe whether the lubricant is continuously delivered out from the outlet of the pump or not;
6. Connect system pipelines;
7. Do not excessively tilt or invert the pump body;
8. Schematic diagram of motor and electromagnetic valve wiring



V. Maintenance

Main fault and troubleshooting method

Fault	Cause	Troubleshooting method
1. Pump is not out of lubricant.	a. Lubricant is mixed with air.	During operation of the pump, unscrew the vent valve to fully exhaust air until lubricant is continuously delivered from the port of the vent valve.
	b. Lubricant is mixed with impurities and small particles.	Change with clean lubricant and simultaneously clean parts such as the check valve in the pump according to the situation.
2. Pressure cannot be established.	a. Pipelines are not tightly connected. b. Check valve is failed.	Please tighten pipeline joints. Clean or replace the check valve.
3. Pressure is too high or greatly fluctuates.	Overflow valve is failed.	Check the sleeve/piston assembly and sealing pieces in the overflow valve. If any is damaged, replace it.

Product Quality Feedback Information List

User name					
Contract number					
Contact person				Telephone	
Communication Address					
Product name					
Model& specification				Qty.	
Delivery date				Installation date	
Product satisfaction degree	1. Satsified		2. General		3. Unsatisfied
Quality problem					
Influence of the said quality problem on user	1. Installation	2. Commissioning	3. Accuracy	4. Performance	5. Use
	6. Reliability	7. Service life	8. Maintenance	9. Environment	10. Others
User requirements	1. Describe through correspondence	2. Send personnel for repair	3. Assist to install and commission		
	4. Deliver back to repair	5. Exchange	6. Return	7. Claim	8. Others
User suggestions Or other requirements					

Filled by Date

Notes:
(1) This feedback list is filled by users, as one of bases that our company improves product quality or deals with quality problems.
(2) The two columns “Influence of the said quality problem on users” and “User requirements” are optional for users.
(3) Please send this feedback list to: Quality Department, Nanjing Bijur Machinery Products Ltd.

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