

使用说明书

SERVICE MANUAL

automatic lubricating machine Model QRB
QRB型气动润滑装置



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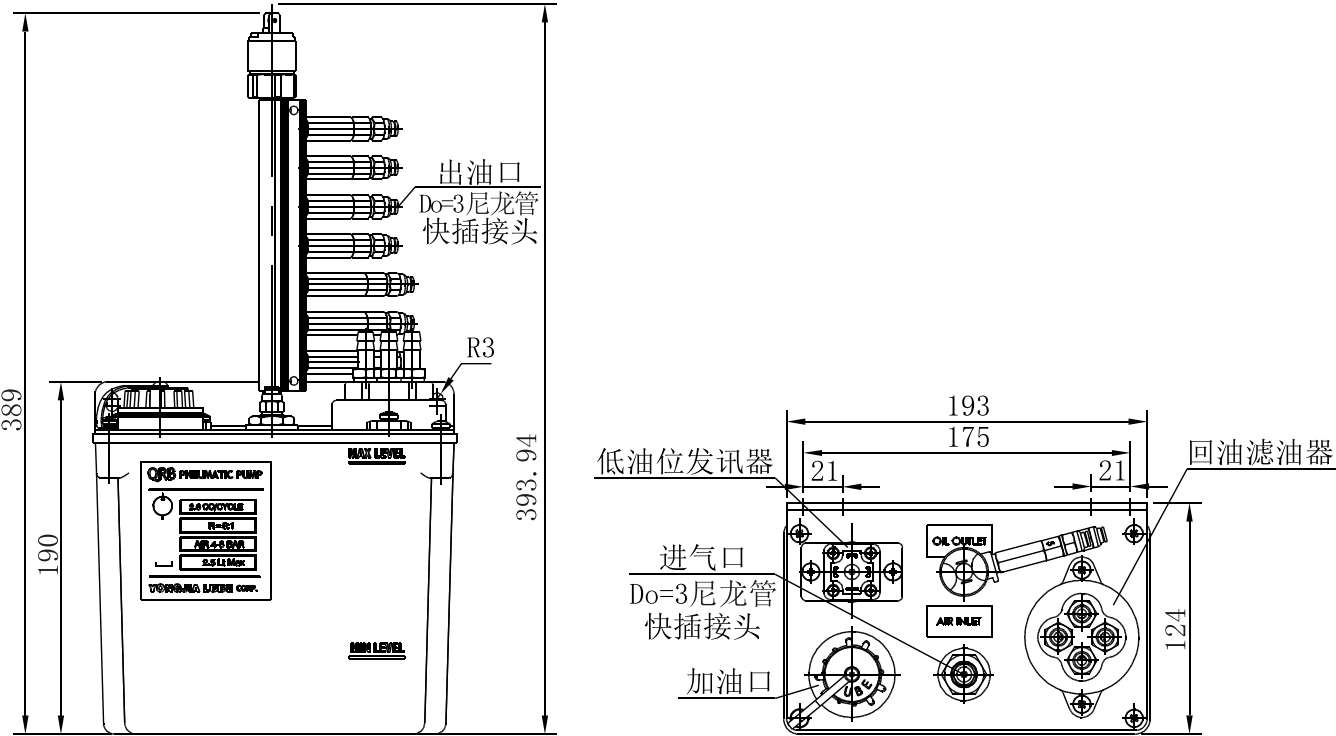
自动润滑器由气动润滑泵、定量油分配器、回油滤油器及压力、低油位发讯器等部件组成。由压缩空气驱动润滑泵输出压力油，通过油分配器（计量件）可将润滑油定量注入各润滑点。由设备的气、电控制系统对自动润滑器的注油周期进行设定，并可对压力异常和低液位进行报警。

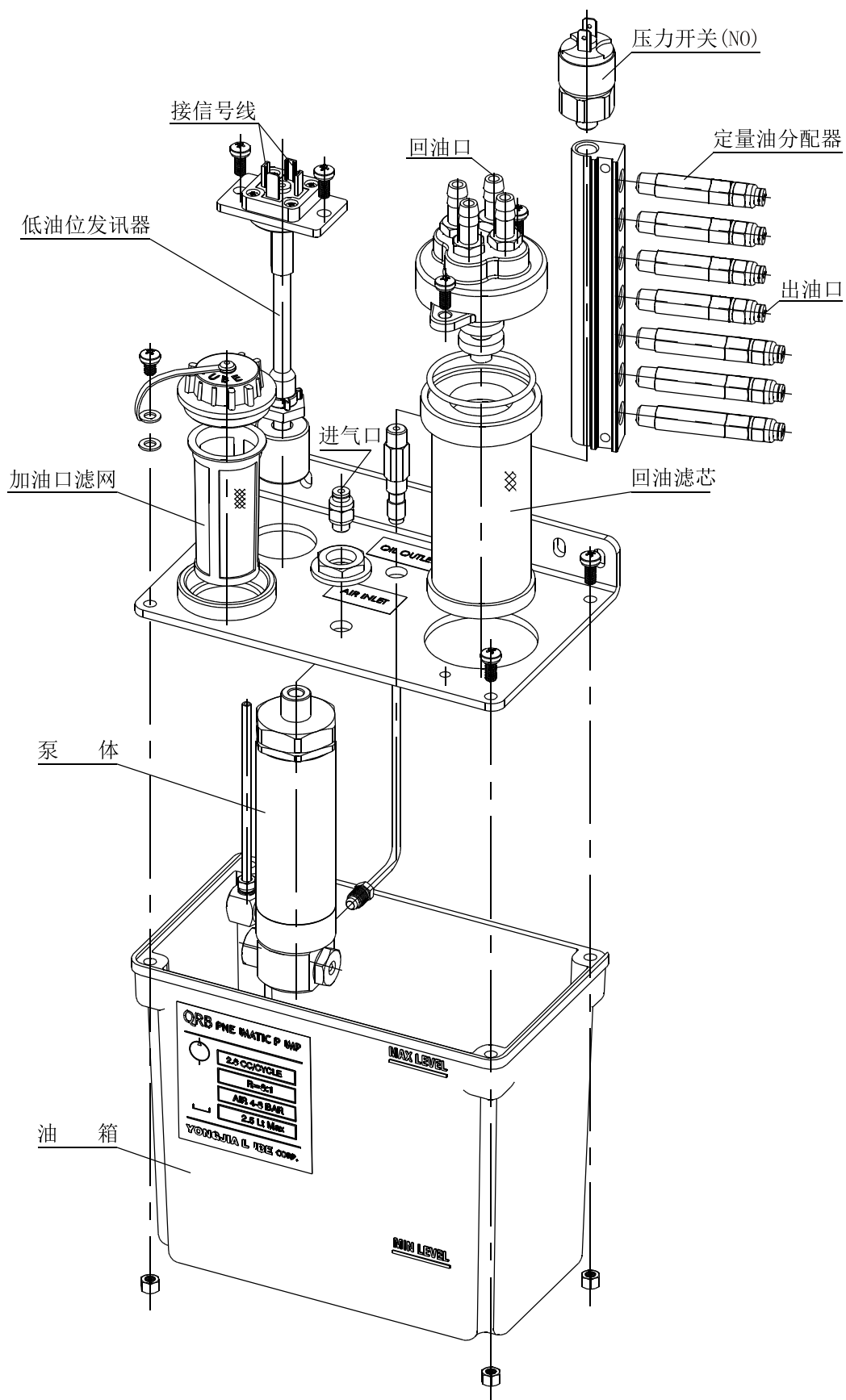
一、技术参数

输入气压范围 MPa	气动泵每循环最大排油量 mL/CY	油箱容积 L	最大增压比	最大供油压力限值 MPa	最高供油频率限值 CY/min	定量油分配器排油量 mL/CY	适用润滑剂粘度范围 cst
0.4~0.8	2.6	2.5	8:1	6.3	15	0.06×2 0.10×2 0.16×3	5~1000

压力开关及低油位发讯器触点容量：AC220V/1A DC24V/2A

二、外形及安装尺寸





三、系统工作原理：

气动润滑泵为单作用柱塞式气液增压泵，通入压缩空气后，气液增压活塞将油液压力升高排至油分配器（计量件），各计量件将润滑油定量注入各润滑点，压力开关发出信号；当断开气源后，润滑泵的气液增压活塞依靠弹簧复位，完成吸油，同时各出油计量件卸压进入油液计量，等待下一工作循环。

设备的气、电控制系统可对润滑泵注油周期进行设定，同时，当在注油过程中未检测到压力开关动作信号，或者油位过低，液位发讯器发出讯号，则控制系统使设备停止工作。

四、安装及使用说明：

1. 润滑泵安装紧固，接管、信号线连接正确，接地可靠。
2. 确保输入气压符合要求，油箱加满清洁指定的润滑油。
3. 首次使用，取下机器各润滑点油管，手动控制注油数次（每次停止时间不得少于3sec），待各油管出油正常后，再插上润滑点油管，按系统设置要求工作。

五、使用注意事项

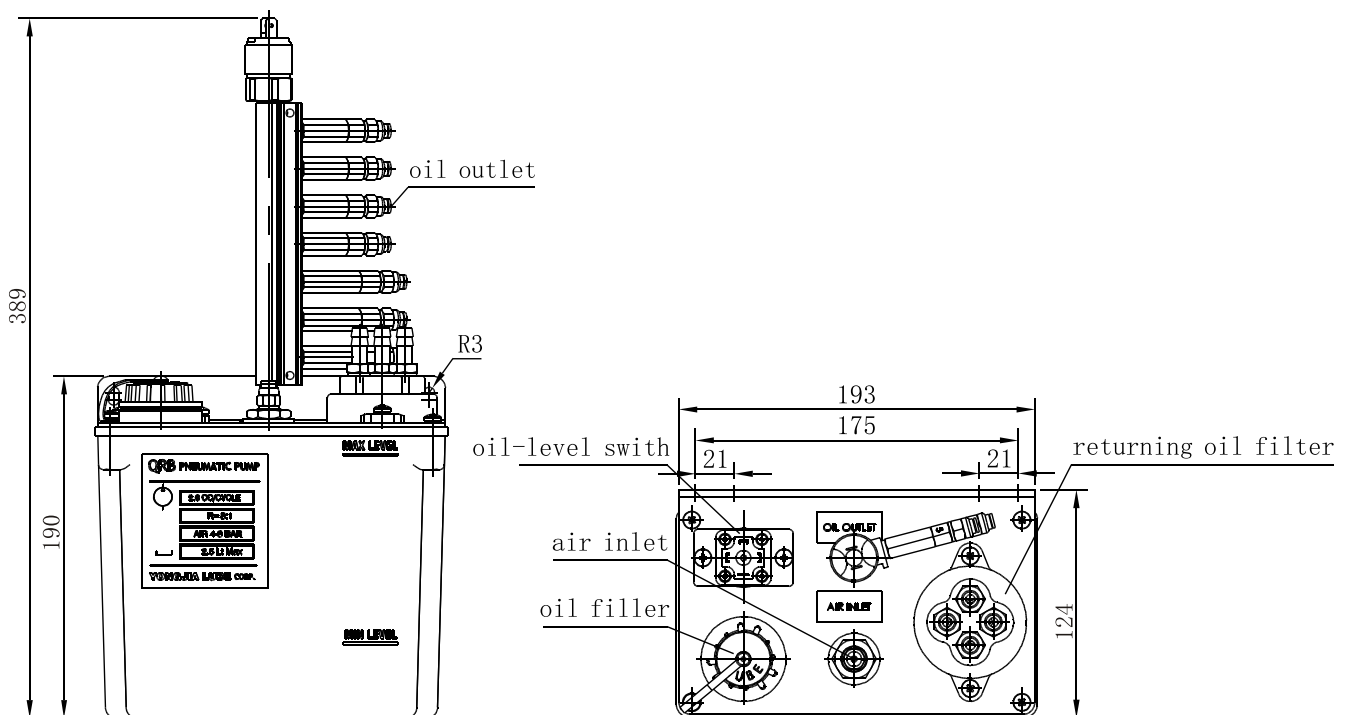
1. 使用指定清洁的润滑油。
2. 确保输入气压符合使用要求。
3. 信号线连接紧固，接地可靠。
4. 润滑系统故障时：
 - a. 检查油箱内油剂是否处于低油位；如若处于低油位，请加入指定清洁的润滑油。
 - b. 检查各管是否联接紧固，有否漏油、漏气；如有漏油、漏气，请紧固管接头或重新插管。
 - c. 检查信号线与地线连接是否松动；如若松动，请紧固。
 - d. 检查所输入气压是否符合要求（需用压力表检测）；如若未达到要求，请检查输入气路，排除故障。
 - e. 检查回油滤芯是否堵塞；如若堵塞，则回油不畅，须拆出清洗。

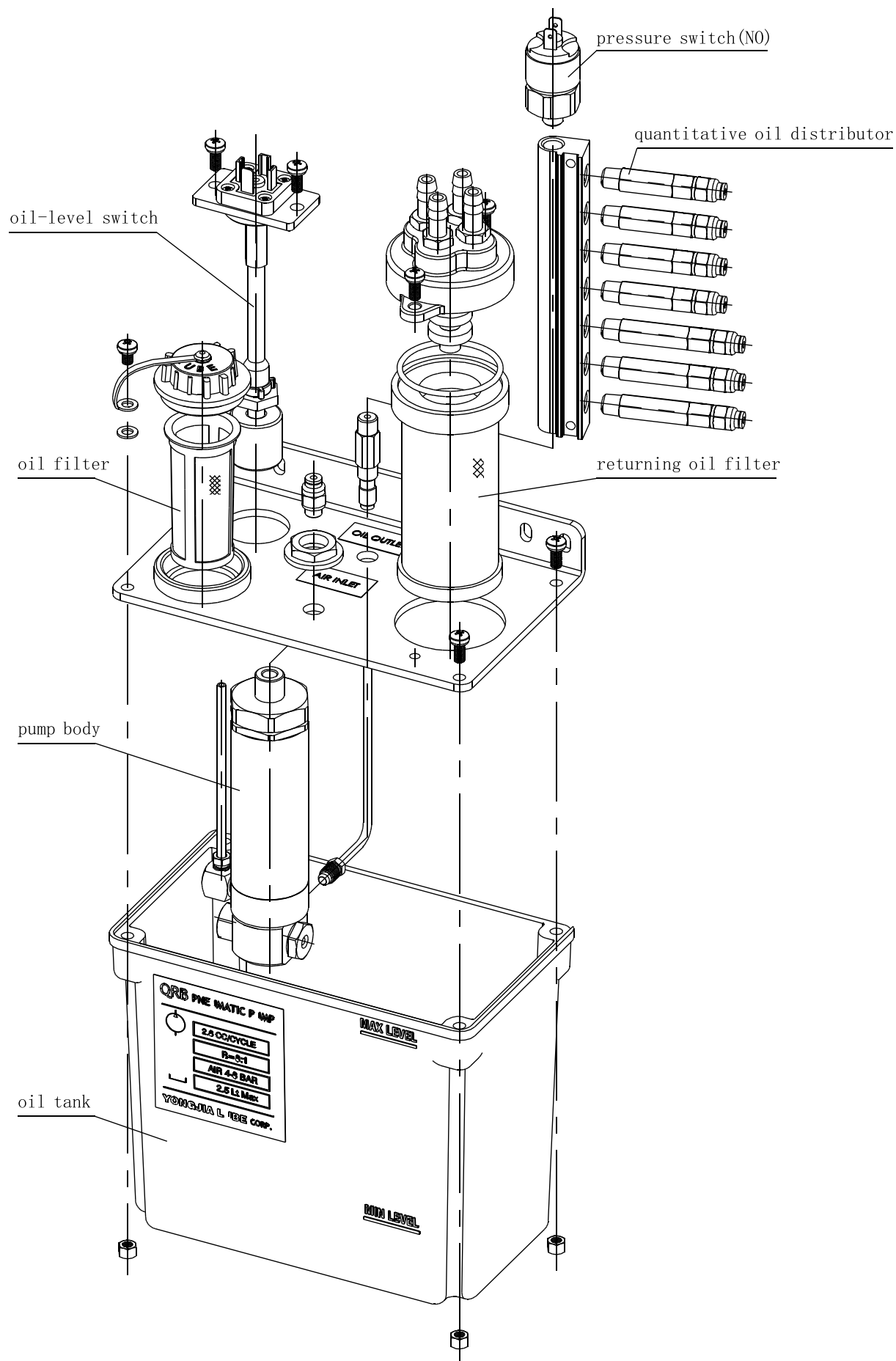
The automatic lubricating machine consists of such components as pneumatic lubricating pump, quantitative oil distributor, returning oil filter, pressure switch and oil-level switch etc. Driven by compressed air the lubricating pump exports the pressure oil, and infuses the lubricant to each lubricating point quantitatively by the oil distributor (meter regulator). The electric and pneumatic controlling system can set infusing period and alarm us because of pressure abnormality or oil deficiency.

1. Technical parameter

Input air pressure MPa	Maximal flow per cycle mL/CY	Tank volume L	Maximal pressurizing ratio	Maximal output oil pressure Mpa	Maximal output oil frequency CY/min	Quantitative oil distributor flow mL/CY	Applicable viscosity range of lubricant cst
0.4~0.8	2.6	2.5	8:1	6.3	15	0.06×2 0.10×2 0.16×3	5~1000

2. Outline and installation dimension





3. System working principle

As the single function plunger type gaseous-liquid pressurizing pump , the pneumatic pump pressurizes the lubricant by plunger, infuses the lubricant into the oil distributor (meter regulator), which infuses the lubricant to each lubricating point quantitatively, and the pressure switch sends out the signal. After cutting off gas source, the gaseous-liquid pressurizing plunger is replaced by spring, and meanwhile it complete suction process. Each meter regulator is unloaded for next working circulation.

The electric and pneumatic controlling system can set infusing period, at the same time, when there is no action signal of the pressure switch or brings low oil-level signal ,the system make equipments stop working.

4. Installation and usage specification

4.1 Lubricating pump must be firmly installed, pipelines and signal lines are connected correctly with reliable grounding.

4.2 Make sure the air pressure request, fill the specified lubricant only.

4.3 When used for first time, dismantle each lubricating point pipeline of machine, manually operate the pump several times(every ceasing time cannot be less than 3 secs),until each pipeline discharges oil normally, then put on it working according to system setting.

5. Usage attentions

5.1 Use the specified and clean lubricant only.

5.2 Insure the input air pressure meeting the usage request.

5.3 Signal lines be connected correctly with reliable grounding .

5.4 When be malfunction:

- a) Check oil tank whether to be in low level or not, if to be in low level, please fill the specified and clean lubricant.
- b) Check each pipeline whether connected firmly or not, if to be leak , please tighten the pipe junction or reinsert pipelines.
- c) Check signal and grounding lines whether loosen or not, if loosen please tighten.
- d) Check the input air pressure(by using manometer), if out of request ,please change it to eliminate malfunction.
- e) Check the returning oil filter , if blocked ,please clean it.

全国统一服务热线：400-826-7855



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