Inflator Instruction Manual

Please read the instructions carefully before use



trimix

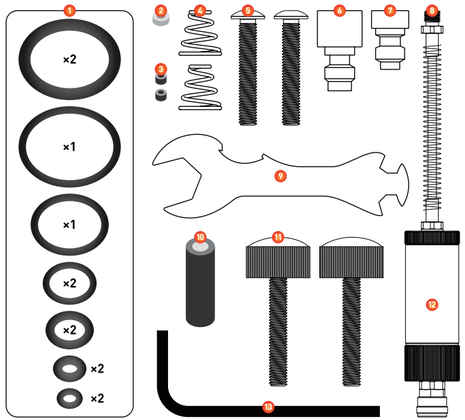
HIGH-PRESSURE HAND PUMP

4-stage / 3-stage

01 Product Features

①High : About 627mm(minimum altitude)/ about 1045mm
(highest stretch height);
②Product net weight : about 2.25kg;
③Maximum working pressure: 310bar (4500psi);
④Foldable base;
⑤8mm quick connector;

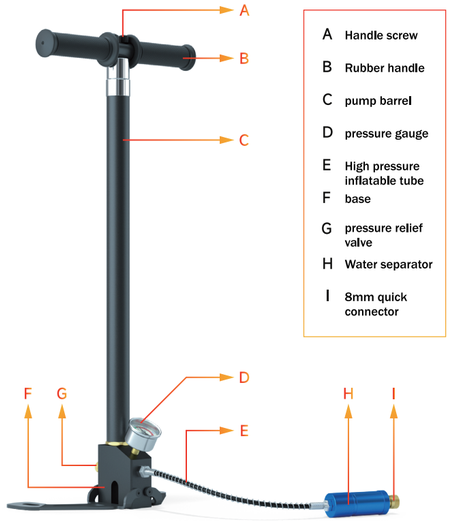
02 Parts List



1	Spare O-rings	8	High-pressure air pipe
2	White washers	9	Special wrench
3	Black washers	10	Oil-water separator carbon rod
4	High-pressure piston springs	11	Handle screw
5	Screws	12	Oil-water separator
6	Inflatable adapters	13	Hexagonal wrench
7	Test plugs		

03 Installation Notes

Assemble as shown in the figure below, use a special wrench to tighten the joints (pressure gauge, high pressure charging
Air pipe and oil-water separator), (Note: Moderate force is enough, too tight will cause pressure
The sealing rubber between the table and the hose and the base is deformed and leaks). The handle screw installation must be tightened, Do not loosen.



A	Handle screw
B	Rubber handle
C	pump barrel
D	pressure gauge
E	High pressure inflatable tube
F	base
G	pressure relief valve
H	Water separator
I	8mm quick connector

04 Test before Use

Test Methods:

1. Install the test plug;
2. Tighten the pressure relief valve and inflate to 10Mpa; open the pressure relief valve to release the gas pressure;
3. Tighten the pressure relief valve again and inflate to 20Mpa;
4. Observe for about two minutes to check whether the pressure gauge of the pump has dropped. If the pressure gauge does not drop, the performance of the pump is normal; if the pointer of the pressure gauge drops, it is recommended to put the entire pump base, high-pressure inflation tube and test plug into the water to check for air leaks.

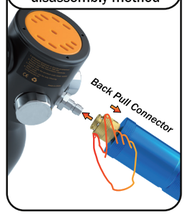
05 Instructions

①Please be familiar with the operation method before use. Improper operation may cause harm to the user, or
Damage the pump.
② Connect the air cylinder to the container to be inflated first. (Please read the relevant manual to familiarize yourself with the content Inflatable connection port of the device).
③Check whether the pressure relief valve is tightened, if it is loose, tighten it.
④When inflating, step on the bottom plate of the pump with both feet to ensure the stability of the pump.
⑤Place the container to be inflated flat on a horizontal surface, and then start to inflate.
⑥ After the inflation is completed, twist the pressure relief valve of the air cylinder to discharge the oil-water mixture generated during the inflation process.
substances and gases.

Danger Warning

After inflating, do not release the pressure until the pressure relief valve releases the pressure Disassemble any connectors, If under pressure Disassembly of connectors may result in serious injury.
Also, do not place your hands on the Near the air outlet or point it at anyone! otherwiseSerious injury may result.
Before inflating the container, please familiarize yourself with the container capabilities and their parameters.

8mm quick connector disassembly method



06 Common problems and solutions (①~②)

① After the gas cylinder is connected to the container, after a period of inflation, the pressure is still displayed as zero or the pressure speed is increased
very slow? (Standard 0.5 liter container, 420-450 can press up to about 20Mpa).
Problem Analysis: Leakage.
Solution: put the pump base, high-pressure inflation tube and test plug into the water to check for leaks
Be angry.
②During the pumping process, the air pump pumps up heavily, and it will automatically suck down when it is pulled to the end?
Problem analysis: There is a problem with the one-way valve needle of the three-stage piston group.
Solution:
● Open the air release valve, disassemble the outer tube and handle connecting screw (only one) and pour water or silicon
After reassembly, dry air several times in quick succession to discharge the sundries stuck in the valve.
● Remove the three-stage piston group, find out the cause of air leakage, or replace the sealing piston.

06 Common problems and solutions (③~④)

③The more you pump, the harder you pump and push down?
Problem Analysis: There is a serious shortage of oil in the pump.
Solution: Add 2~3 drops of special lubricating oil to the secondary tube and tertiary tube of the gas cylinder. (Notice:
After refueling, it must be empty for 50 times, drain the excess oil, and then use it again.) (see reference figure 6.3)
(The new pump does not need to be refueled, it has been refueled at the factory, and it is refueled every 1500 or so pumps.)
④The pressure gauge does not return to zero?
Problem analysis: The excess oil is not drained cleanly, and the oil and gas expand at about 20MPa, and the oil and gas expand instantly.
If the pressure exceeds 40Mpa, the pressure gauge will be damaged due to overload, or the pressure of the gas cylinder will be damaged during carrying.
The watch was severely shaken, causing the hands to shift.
Solution: replace the pressure gauge



6.3 How to add lubricant

打气筒
使用说明书

使用前请仔细阅读说明书



trimix

四级 / 三级高压手泵

4-stage / 3-stage

01 产品特征

①高度：约627mm（最低高度）/ 约1045mm（最高拉伸高度）；

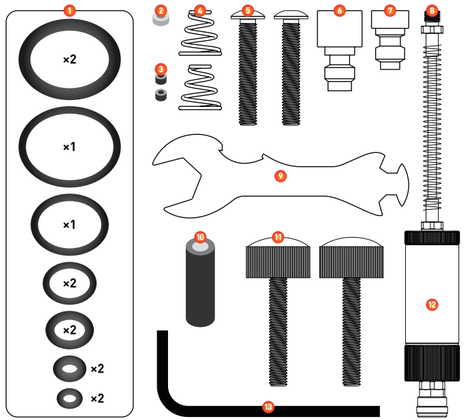
②产品净重：约2.25kg;

③最大工作压力：310bar(4500psi)；

④可折叠底座;

⑤8mm快速接头;

02 配件清单



1	备用O圈	8	高压充气管
2	白色垫圈	9	专用扳手
3	黑色垫圈	10	油水分离器碳棒
4	高压活塞弹簧	11	手柄螺丝
5	螺丝	12	油水分离器
6	充气转换头	13	六角扳手
7	测试堵头		

03 安装说明

根据下图所示进行组装，用专用扳手扭紧各连接处（压力表、高压充气管及油水分离器），（注意：力度适中即可，过于扭紧会造成压力表和软管与底座之间的密封胶垫变形漏气）。手柄螺丝安装必须扭紧，不可松动。



① 手柄螺丝
② 橡胶手柄
③ 泵筒
④ 压力表
⑤ 高压充气管
⑥ 底座
⑦ 泄压阀
⑧ 油水分离器
⑨ 8mm快速接头

04 使用前测试

测试方法：

1、安装测试堵头；

2、扭紧泄压阀，充气到10Mpa；打开泄压阀，释放气体压力；

3、再次扭紧泄压阀，充气到20Mpa；

4、观察两分钟左右，查看打气筒压力表是否有回落现象。若压力表无回落，则打气筒性能正常；若压力表指针有回落，建议将整个气筒底座、高压充气管和测试堵头放入水中排查漏气点。

05 操作说明

①在使用前请先熟悉操作方法，操作不当可能对使用者造成伤害，或损坏气筒。

②先将气筒和需要充气的容器连接好。（请先阅读相关手册熟悉该容器的充气连接口）。

③检查泄压阀是否拧紧，若松动则将其扭紧。

④在打气时，双脚踩在气筒底板上以确保气筒的稳定性。

⑤将需要充气的容器平放在水平面上，然后开始打气。

⑥充气完成后，扭开气筒的泄压阀，排出充气过程中产生的油水混合物和气体。

危险提示

充气完成后，在泄压阀未泄压之前请勿拆卸任何连接头，若在有压力的情况下拆卸连接头可能会造成严重的伤害。

同时，在松开泄气阀时请不要将手放在出气口的附近或将其对准任何人！否则可能造成严重伤害。

在对容器进行充气前，请先熟悉容器性能及其参数。

8mm快速接头拆装方式



06 常见问题及解决方法（①~②）

①气筒跟容器连接好后，充气一段时间后，压力仍显示为零或上压速度很慢 ？（标准0.5升容器，420-450下可以上压到20Mpa左右）。

问题分析： 漏气。

解决方法： 将气筒底座、高压充气管和测试堵头放入水中进行检查漏气点。

②打气过程中，气筒上抽很重，拉到头后会自动往下吸?

问题分析： 三级活塞组单向阀针出现问题。

解决方法：

- 打开泄气阀，拆开外管和手柄连接螺丝(只有一个)向内灌入水或硅油，重新装配后快速连续空打多次，排出卡在阀门处的杂物。
- 拆除三级活塞组，查找漏气原因，或更换密封活塞。

06 常见问题及解决方法（③~④）

③打气越打越重，上抽和下压都重?

问题分析： 气筒内严重缺油。

解决方法： 向气筒的二级管及三级管内添加2~3滴专用润滑油。(注意：加油后须空打50次，将多余的油排出，然后再使用。)(见参考图6.3)（新打气筒不需要加油，出厂已加好，每打1500下左右加油一次。）

④压力表不归零?

问题分析： 多余的油没有排干净，20MPa左右时油气产生膨胀，瞬间压力超过40Mpa，压力表超过负荷造成损坏，或携带途中，气筒压力表严重震动，造成指针移位。

解决方法： 更换压力表



6.3 如何添加润滑油