



ELECTRIC PRESSURE TESTING PUMP (SKU : TPNM)

Operating Manual

————— Please read the user manual carefully before use —————

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7、 Packing list

model	Product Name	Specifications	quantity	remarks
TPNM	Main machine	UNIT	1	Currency
	High pressure pipe	LTH	1.5m	Currency
	Inlet pipe	LTH	1	Currency
	Return pipe	LTH	1	Currency

3、Usage method

- (1) 、 Use clean water sources as testing water.
- (2) 、 Turn on the power switch, start the machine, and connect the high-pressure pipe and the tested pipeline or container components after the water is discharged. If the tested volume is relatively large, fill the container with working medium in advance to improve work efficiency.
- (3) 、 Tighten the pressure relief screw and start applying pressure. When the pipeline or component being measured is filled with medium and the pressure gauge pointer moves, slowly turn the pressure regulating knob downwards to adjust the pressure until the value on the pressure gauge reaches the pressure required by your lock.
- (4) 、 Check if the value on the pressure gauge has decreased. If the value does not decrease, it indicates that the pressure resistance performance of the tested container is good. If the value on the pressure gauge decreases, it indicates that the tested container is leaking.
- (5) 、 After completing the homework, remove all kinds of pipes one by one, then turn on the motor and run it idle for half a minute to drain any residual water stains inside the machine and clean it for normal use next time.

4、 Technical parameter

MODEL	Voltage V	Pressure (Mpa)	Flow (L/H)	Power (KW)	Speed R/min
TPNM	220V	2.5	420	1.8	2800
		4.0			
		6.0			

5、 Attentions

- (1) 、 The power supply needs to be equipped with a leakage protection device and have a reliable grounding.
- (2) 、 The pressure adjustment should not exceed the rated maximum pressure, otherwise it may cause the meter to explode.
- (3) 、 The pressure test medium is water or an oil with a viscosity similar to water. The water quality must be clean and free of impurities, otherwise it will cause the machine to not absorb water.
- (4) 、 This machine has a motor overload protection device. When the motor exceeds the design temperature, it will automatically shut down and wait for 5 minutes for the motor to cool down before starting.

6、 Fault symptoms and troubleshooting methods

fault	Cause analysis	Exclusion method
The motor does not start	<ol style="list-style-type: none"> 1、 The power connection wire has come loose. 2、 The power switch is broken. 	<ol style="list-style-type: none"> 1、 Ensure good contact of the connecting wire. 2、 Replace the switch.
There is abnormal noise when the motor rotates	<ol style="list-style-type: none"> 1、 Loose fixing screws of water pump. 	<ol style="list-style-type: none"> 1、 Tighten the fixing screws.
Leakage at the connection point	<ol style="list-style-type: none"> 1、 Water pump inlet and outlet pipe joints are leaking. 	<ol style="list-style-type: none"> 1、 Tighten loose screws and nuts.
Unable to cope with pressure	<ol style="list-style-type: none"> 1、 Damaged parts inside the pressure regulating valve. 2、 Poor sealing of single-phase valve inside the regulating plate. 3、 Pressure gauge damaged. 4、 The pressure relief screw is not tightened properly. 	<ol style="list-style-type: none"> 1、 Replace relevant parts. 2、 Check or replace the one-way valve. 3、 Replace the pressure gauge. 4、 Tighten the pressure relief screw.
Poor pressure retention	<ol style="list-style-type: none"> 1、 The pressure relief screw is not tightened properly. 2、 The O-ring of the single-phase valve inside the regulating plate is damaged or stuck with dirt. 3、 Leakage at the pipeline connection. 	<ol style="list-style-type: none"> 1、 Tighten the pressure relief screw. 2、 Replace the O-ring of the single-phase valve or clean the one-way valve. 3、 Tighten the joints of each pipeline.
Not absorbent	<ol style="list-style-type: none"> 1、 The water quality is not clean and contains impurities. 2、 The small holes in the filter screen are blocked. 3、 There are slight impurities in the pump body. 4、 There are serious dirt and impurities inside the pump body. 	<ol style="list-style-type: none"> 1、 Replace the clean and impurity free water source. 2、 Clean the filter screen. 3、 Lift up the inlet pipe and fill it with water before starting the machine to divert water. 4、 Disassemble and clean the pump body or replace the pump body.

1、 Structural characteristics and range of use

The TPNM high flow electric pressure testing pump is our company's latest research and development product, which has the functions of reasonable structure, large water flow rate, high efficiency and convenience. It is an ideal pressure testing equipment. Widely applicable for pressure testing of various pipelines, pressure vessels, valves, etc. Suitable for pressure testing in industries such as chemical, construction, plumbing, petroleum, shipbuilding, etc. DC-360 has the function of pressure test and cleaning spray.

2、 Product





大流量便携式电动试压泵 (SKU: TPNM)

使用说明书

—— 使用前请仔细阅读使用说明书 ——

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七、装箱单

型号	品名	规格	数量	备注
TPNM	主体机器	台	1	通用
	高压管	根	1.5米	通用
	进水管	根	1	通用
	回水管	根	1	通用

三、使用方法

- 1、使用干净水源作为测试用水。
- 2、开启电源开关，开动机器，等出水后连接高压管和被测管道或被测容器部件，如果被测容积比较大，则预先把容器注满工作介质，以提高工作效率。
- 3、拧紧保压卸压螺钉，开始打压，等被测压管道或零部件充满介质，压力表指针有动作时，把调压旋钮慢慢往下拧，调节压力，直到压力表上的数值达到您锁需要的压力为止。
- 4、查看压力表的数值是否下降，如果数值不下降，则表明被测容器的耐压性能良好，如压力表数值下降，则表明被测容器有泄漏现象。
- 5、完成作业后，将各类管子依次拆下，然后开启电机空转半分钟，排净机内残余水渍，清洁机器，以便下次正常使用。

四、技术参数

型号 MODEL	电压 V	压力 Pressure(Mpa)	流量 Flow(L/H)	功率 Power(KW)	转速 R/min
TPNM	220V	2.5	420	1.8	2800
		4.0			
		6.0			

五、注意事项

- 1、电源需安装漏电保护装置，并要有可靠接地。
- 2、压力调整不得超过额定最大压力，否则会造成爆表。
- 3、试压介质为水或粘度和水相近的油品。水质必须干净无杂质，否则会造成机器不吸水。
- 4、本机具有电机过载保护装置，当电机超过设计温度时会自动断电停机，此时等待5分钟让电动机自行冷却再启动电机。

六、常见故障及排除方法

故障现象	原因分析	排除方法
电机不启动	1、电源连接线脱落 2、电源开关坏	1、连接线保证接触良好 2、更换开关
电机转动有异响	1、水泵固定螺丝松动	1、拧紧固定螺丝
连接处漏水	1、水泵进水、出水管接头漏水	1、拧紧松动的螺丝螺母
压力上不去	1、调压阀内零件损坏 2、调节板内单向阀密封不好 3、压力表损坏 4、保压卸压螺钉未拧紧	1、更换相关零件 2、检查或更换单向阀 3、更换压力表 4、拧紧保压卸压螺钉
保压不好	1、保压卸压螺钉未拧紧 2、调节板内单向阀“O”型圈破损或有脏东西粘住 3、管路连接处泄漏	1、拧紧保压卸压螺钉 2、更换单向阀“O”型圈或清洗单向阀 3、拧紧各管路接头
不吸水	1、水质不干净有杂质 2、过滤网小孔堵塞 3、泵体内有轻微杂质 4、泵体内有严重脏东西和杂质	1、更换干净无杂质水源 2、清洗过滤网 3、把进水管提起来灌满水再开机引水。 4、拆洗泵体或更换泵体

一、结构特点和使用范围

TPNM 大流量电动试压泵系我公司最新研发产品，具有结构合理，出水流量大，高效便捷之功能，是理想的试压检测设备。广泛适用于各种管道、压力容器、阀门等进行压力测试。适用于化工、建筑、水暖、石油、造船等行业的试压。DC-360型具有试压清洗喷雾功能。

二、产品图

