

Hand Diaphragm Pump

Basic Information

- Price: Negotiation



Product Specification

Product Description

Features Products Specifications Application

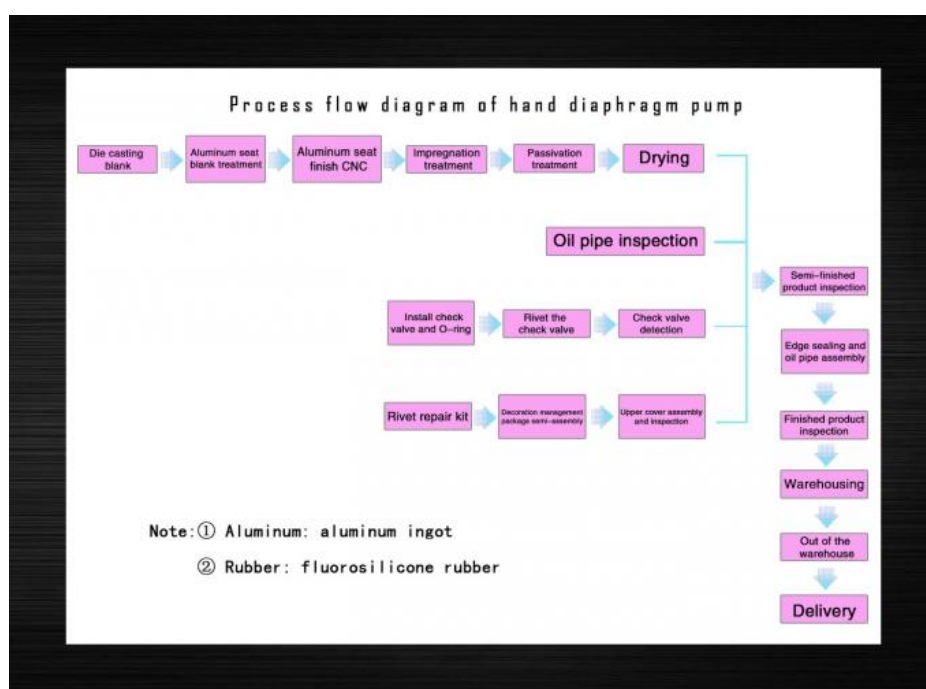
Hand Diaphragm Pump

Hand diaphragm pump is called hand pump for short, which is composed of shell, gland, spring, piston rod, piston, one-way valve and oil pipe. The hand diaphragm pump is a part that delivers the fuel in the oil tank to the oil passage. Its main function is to absorb and deliver the fuel, and to ensure that there is no leakage of fuel and pressure during pumping.

The hand diaphragm pump is used to remove the air in the engine oil duct. When there is air in the engine oil duct, such as a new car just off the assembly line, or the fuel in the fuel tank is running out, and when starting the engine, the engine cannot start, because the engine fuel pump can only work when the engine starts. At this time, it is necessary to use the hand diaphragm pump to pump the fuel in the fuel tank into the oil duct.

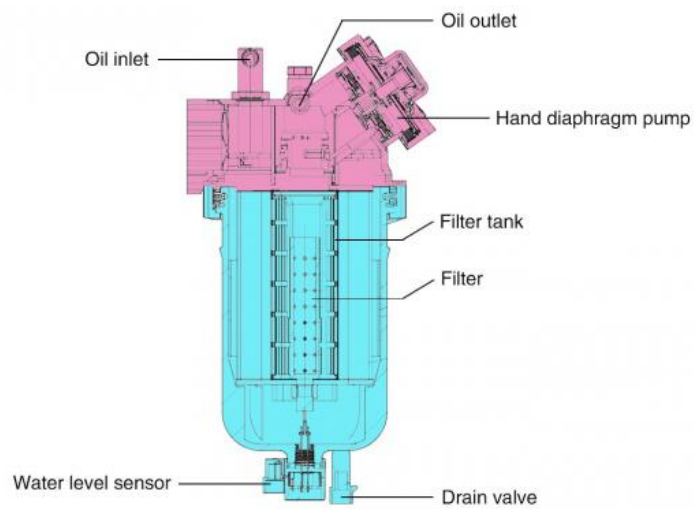
Product Introduction

The shell of the hand diaphragm pump is made of aluminum ingot by die-casting; the upper and lower glands are made of high-quality cold-rolled plates by stamping; the spring of the hand gland is made of 65Mn spring steel, and the piston pull rod and oil pipe are made of 45# steel with a fatigue resistance of more than 200,000 times; the piston and O-shaped sealing ring are polymerized by fluorosilicone rubber; the one-way valve spring is made of Korean 304 stainless steel, which can resist fatigue impact and has an effective resilience of more than 2 million times.

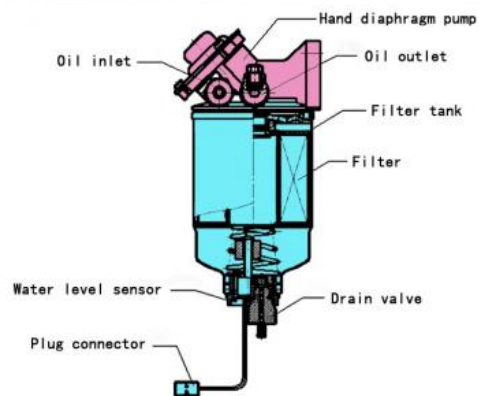


Product advantages1

1. Advanced automatic casting equipment, high dimensional accuracy of castings, and good surface finish.
2. The new primary aluminum ingot is cast with high purity and fewer impurities, compact and uniform internal structure, and good stability and strong consistency.
3. Finishing equipment adopts Japanese MAZAK CNC lathe and Brother brand machining center, with good flatness of sealing surface processing and tight sealing; high precision of thread processing and strong surface finish.
4. The piston and O-ring are made of fluorosilicone rubber, which has excellent air tightness, high and low temperature resistance, fuel corrosion resistance, weather aging resistance and other excellent properties.
5. With independent research and development of testing equipment, and 100% performance testing of key parts, testing items include air tightness testing, throughput testing, pressure testing, corrosion resistance testing, high and low temperature pulse testing, etc., to ensure stable product performance



Product (structure diagram)



Maintenance tips1.

1.For the hand diaphragm pump, it is necessary to do a good job of daily maintenance. First of all, all parts of the hand

diaphragm pump should be kept clean, and there should be no oil stains around the valves and plungers.

2. When using the hand diaphragm pump, it should be handled with care, without bumping, and the pressure rod should be tightened to avoid damaging the screw teeth.

3. When not in use, the non-painted surface shall be coated with a layer of Vaseline oil to prevent rust, and shall be put into a sealed box and stored in a dry room with suitable temperature and away from direct sunlight.

4. It should be noted that the hand diaphragm pump is a vulnerable part, which should be checked and replaced regularly in about 1-2 years.

The failure phenomena of the hand diaphragm pump are as follows:

1. The pump oil is abnormal The oil supply of the hand diaphragm pump is reduced, which is mainly caused by the blockage of the filter element of the hand diaphragm pump or the blockage of the oil circuit; in case of severe conditions, the hand membrane pump will not be able to produce oil, and will not provide lubricating oil to lubricate all parts in the machine body.

2. Air leakage of hand diaphragm pump The poor air tightness and air leakage of the hand diaphragm pump are caused by the aging and damage of the joint sealing gasket and the damage of the oil circuit.

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MASUMA[®] Masuma (Guangzhou) International Trading Co., Ltd.



+8615323309608



msm@masuma.com



masumajp.com

No. 19, Liwu Road, Tanbu Town, Huadu District, Guangzhou