

Pneumatic Diaphragm Pump Reversing Valve Block

Hanlinrui is a professional China Pneumatic Diaphragm Pump Reversing Valve Block Manufacturers and suppliers. We stick to the principal of quality orientation and customer priority, we sincerely welcome your letters, calls and investigations for business cooperation.



Product Description

Our factory specializes in manufacturing of Pneumatic Diaphragm Pump Reversing Valve Block, Hanlinrui was set up formally in 2017, as one of the professional China Pneumatic Diaphragm Pump Reversing Valve Block manufacturers and China Pneumatic Diaphragm Pump Reversing Valve Block suppliers, we are strong strength and complete management.



What is an air operated diaphragm pump?

An Air Operated Double Diaphragm pump is a pump driven by air. Each side of the pump

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houses two separate diaphragms operating individually, which fill with fluid before being discharged through an outlet manifold. Air Operated Double Diaphragm Pumps are often abbreviated to AODD, AOD, or shortened to Diaphragm Pump. Diaphragm pumps are a positive displacement pump.

How does an air operated diaphragm pump work?

This design is primarily driven by an air valve located within the pumps central chamber. Air enters the valve and is directed to one side of the diaphragm creating a vacuum on one side and compressing the diaphragm on the other.

A diaphragm pumps main parts are its suction and delivery manifolds, diaphragms, central air valve, and balls and seats which operate like valves within the pump. North Ridge Pumps have optimised their design of AOD Pumps to consolidate the number of parts within each pump to a handful, where many older generations of pumps continue to use over 50 parts making maintenance difficult.

Their working principle is when a vacuum is created in one diaphragm it causes the balls on the suction side to rise from their seats, allowing fluid to enter the diaphragm, whilst simultaneously causing the balls located close to the discharge manifold to seal against their seats. In the opposing diaphragm which is compressed, fluid pushes the balls against the seats close to the suction manifold, the balls on the discharge manifold no longer seal the outlet meaning fluid expels through the discharge manifold. This cycle repeats continuously. See our air operated diaphragm pump working animation

Miniature Air Operated Diaphragm Pumps work differently, due to the addition of springs in between balls and seats, enabling the balls to return to their position regardless of orientation, whereas traditional designs rely on gravity.

Pneumatic Diaphragm Pump Reversing Valve Block Details



Our professional expertise in manufacturing Pneumatic Diaphragm Pump Reversing Valve Block has been honed over the past 10+ years. Hanlinrui Machinery is a professional Pneumatic Diaphragm Pump Reversing Valve Block manufactures and Suppliers from China Factory. There may be a lot of manufacturers out there, but not all manufacturers are alike.