



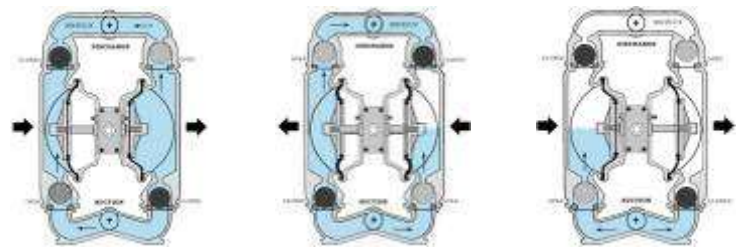
AODD Pumps

Future of AODD Pumps:

To be successful, production companies must develop all business segments. Areas that are crucial include reductions in energy consumption, downtime and maintenance, simplification of production and extension of the lifetime of parts. These issues were the starting point for Neoflux Pump's development of an air operated double diaphragm pump. Managing director Atit Shah provides the details.

In discussions with users of traditional air operated double diaphragm (AODD) pumps, the same areas of concern always come up:

- High Pulsation
- High energy Consumption
- Maintenance Costs
- Downtime
- Noise Levels



These areas have also been confirmed by several different studies and illustrated when the cost of running AODD pumps has been examined. 'The End of Percussion Maintenance' by Mark Jermeay, Ingersoll Rand Fluid Technologies, appeared in the June 2007 issue of Pumps & Systems, and listed the proportion of operational costs of a traditional AODD pump in the following order:

- Downtime due to failure or service
- Energy Costs
- Installation & Repair
- Spare Parts
- Purchase Price

These facts have created the challenge for a more-efficient AODD pump solution and Neoflux Pump focused on these areas in the development of its recently introduced AODD pumps. The four areas of running costs are addressed by the Neoflux's innovative design features, thereby providing end-users with the possibility to further increase productivity and reduce pump running costs.

The Neoflux Pump addresses these areas by changing the design. The result is a pump that will add value for users firstly by cost reduction – by using less energy – and secondly by reducing downtime.

Reducing energy use:

Energy use is reduced by means of a reduction of friction and current losses through a central flow path and innovative Air Distribution System (ADS) called **Neo-Tune** design. The results are lower costs through heavily reduced energy consumption and, as a consequence, lower environmental impact. The reduced friction and current losses also reduce pulsation. Independent tests at the company have shown that AODD pump users can reduce their compressed air consumption by 20–25%, and consequently drive down their pump operating costs significantly, thanks to its innovative ADS.

Reducing downtime:

All Neoflux pumps are designed with a minimum of moving parts. In addition, all parts can be changed with the pump remaining in place within the piping system. The result is a minimization in downtime. Data from trials show that the lifetime of the diaphragms is increased by up to five times as a consequence of the latest **Neo-Flex** diaphragm technology and the new ADS.

Efficient solutions:

The innovative Air Motor with its ADS is the heart of the Neoflux Pump.

We look forward to being of assistance in your process equipment requirements

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