

# ALMATEC®

CXM SERIES



Where Innovation Flows

AIR-OPERATED DOUBLE-DIAPHRAGM PUMPS  
CONSTRUCTED FROM CONDUCTIVE POLYETHYLENE

  
**PSG**  
a **DOVER** company

[almatec.de](http://almatec.de)

# The CXM Series AODD Pumps

- Air-operated double-diaphragm pumps for low- to middle-performance ranges
- Modular design with seven different product connections: Four sizes with NPT connections and three sizes with BSP connections
- High pump safety due to innovative ring-tightening structure, design protected
- Flow optimizations in the product channels
- Made of conductive polyethylene (ATEX and FDA compliant), machined from solid blocks.
- Air control system PERSWING P® without dead spot
- Diaphragms made of EPDM, NBR or PTFE/EPDM compound
- Ball or cylinder check valves
- Variable center blocks for different port sizes and positions
- Self-priming, can run dry
- Suction can empty containers of virtually all fluid

## Special Features

Thanks to the modular design the ALMATEC CXM series AODD pumps are available in four sizes with NPT and in three sizes with BSP connections. This wide range of product connections allows a precise adjustment of the pump to the specific application. This is reinforced by the alternative choice between a ball and cylinder valve system, which can also be converted to each other. Ball valves are ideal for liquids containing particles, cylinder valves for superior suction lift. The pumps are widely used as universal pumps in the low to middle performance range, e.g. as drum pumps.

Flow optimizations in the product channels ensure high performance and gentle pumping. CXM pumps are self priming and proof against dry running. They allow containers to be emptied down to the very last drop, even without supervision.

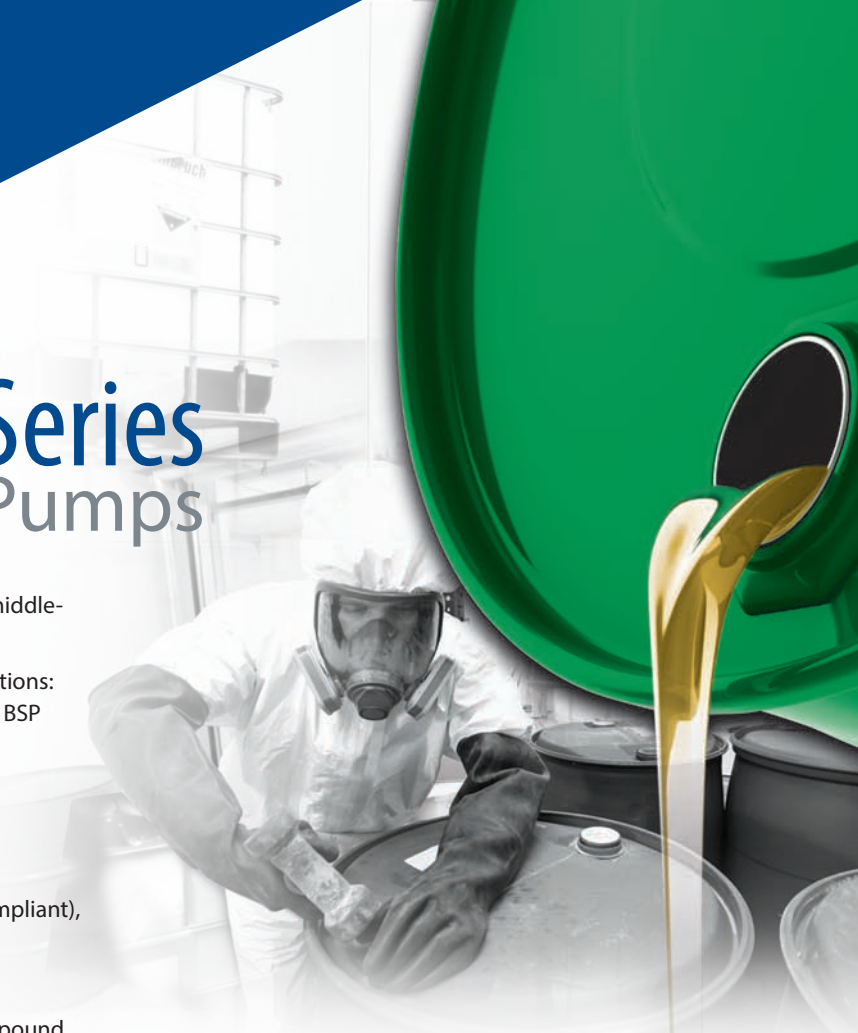
The housings are made of conductive PE, machined from solid blocks, which has a good overall chemical resistance. CXM pumps can be operated within explosion-proof areas and can handle flammable liquids (ATEX compliant). The pumps also meet the FDA requirements.

The diaphragms used consist of one part only and are designed for a long service life. The Almatec air control system PERSWING P® is operating without any lubrication and has no dead center, important for reliable operation in demanding applications (e. g. on-off-mode at low speed).

## High Pump Safety

The housing parts of the CXM series are tightened to each other via housing bolts. However, instead of single bolts pressing punctually against the housing, all housing bolts are tightened together against a diaphragm-sized ring per side. This structure transmits the forces of the housing bolts into the housing parts evenly.

A consistent flow of forces and an increased bolt torque are the effect of this construction –ultimately increasing pump safety.



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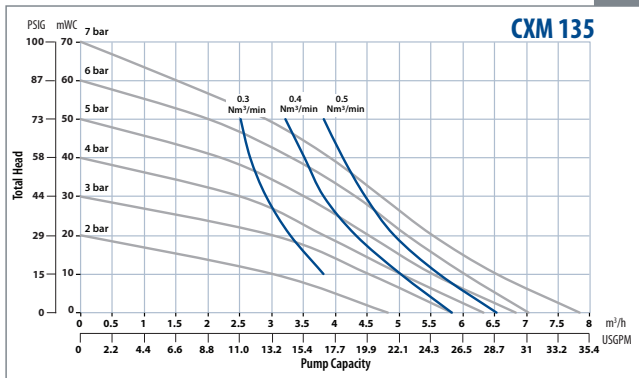
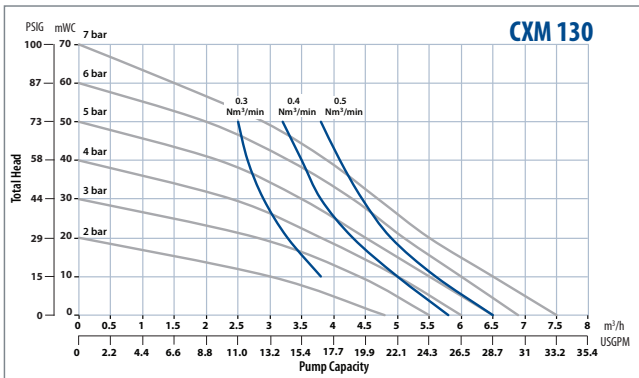
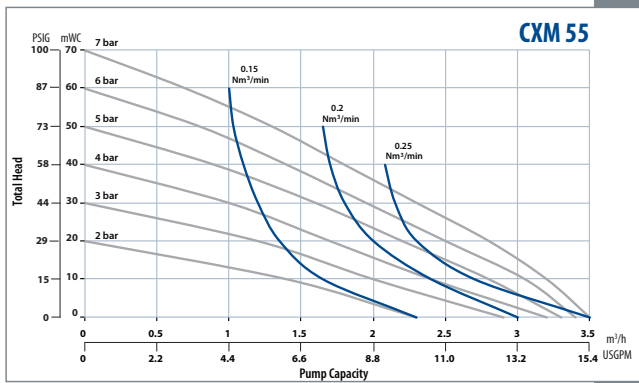
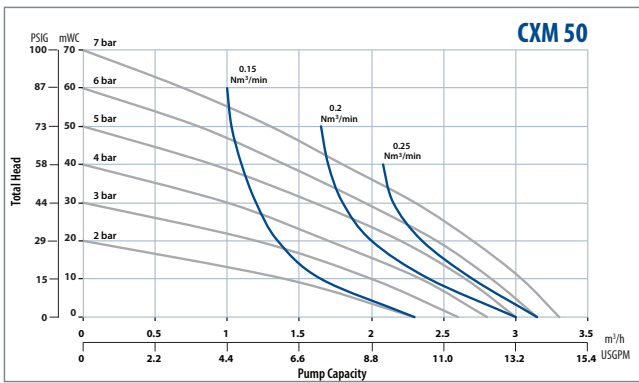
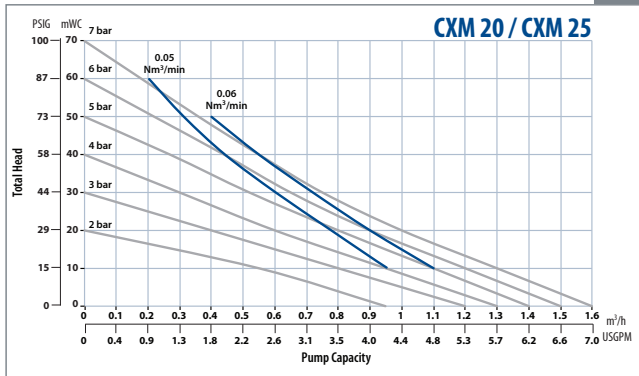
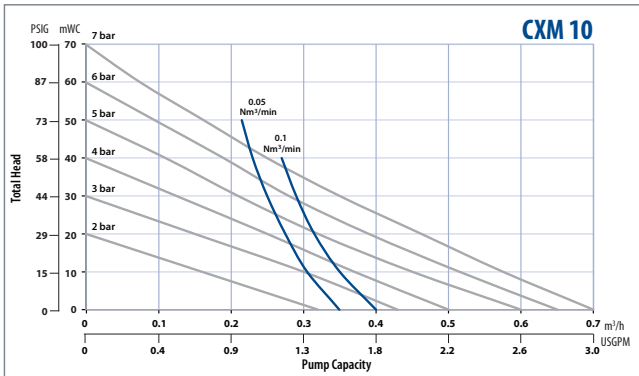
**The die is cast...**

**CXM Series**  
*the die for winners*





# Performance Range



The data refers to water (20°C, 68°F), under using of different pump variations, a compressor Atlas Copco VSG30 and calibrated measuring equipment. The specified performance data are warranted by ALMATEC in accordance with DIN EN ISO 9906. The blue lines state the air consumption.



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