

Air Control Valve PERSWING P®



- All ALMATEC pumps are equipped with the air control system PERSWING P®

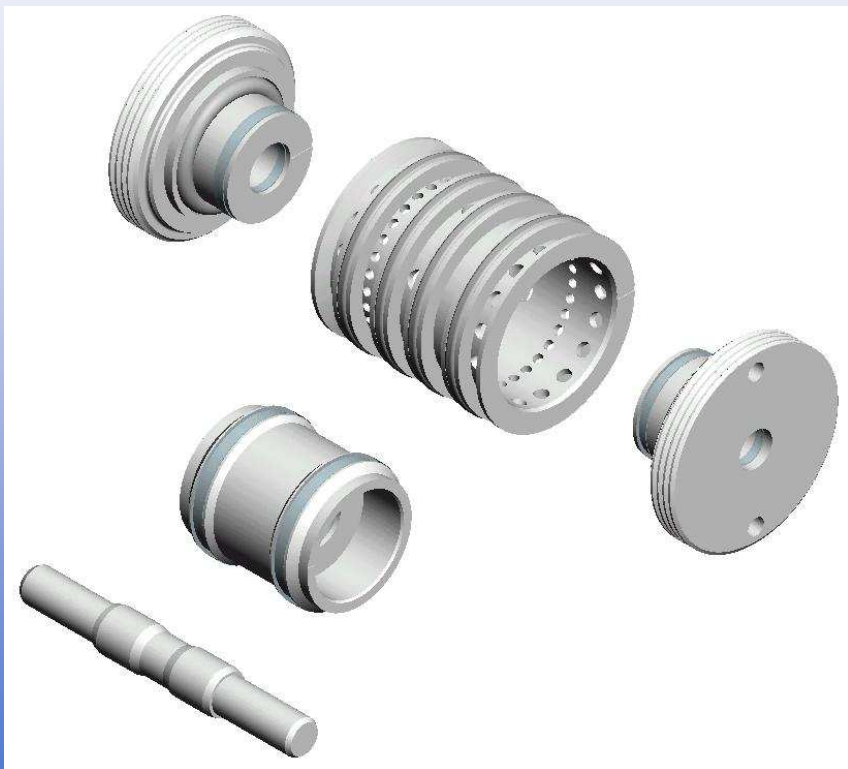
The Specialists for Pneumatic Diaphragm Pumps

Air Control Valve PERSWING P®

- Pneumatically piloted
- Air distribution always clearly defined, therefore no dead centre
- No lubrication, maintenance-free
- No metal at all (material PETP)
- Low noise level

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Air Control Valve **PERSWING P®**

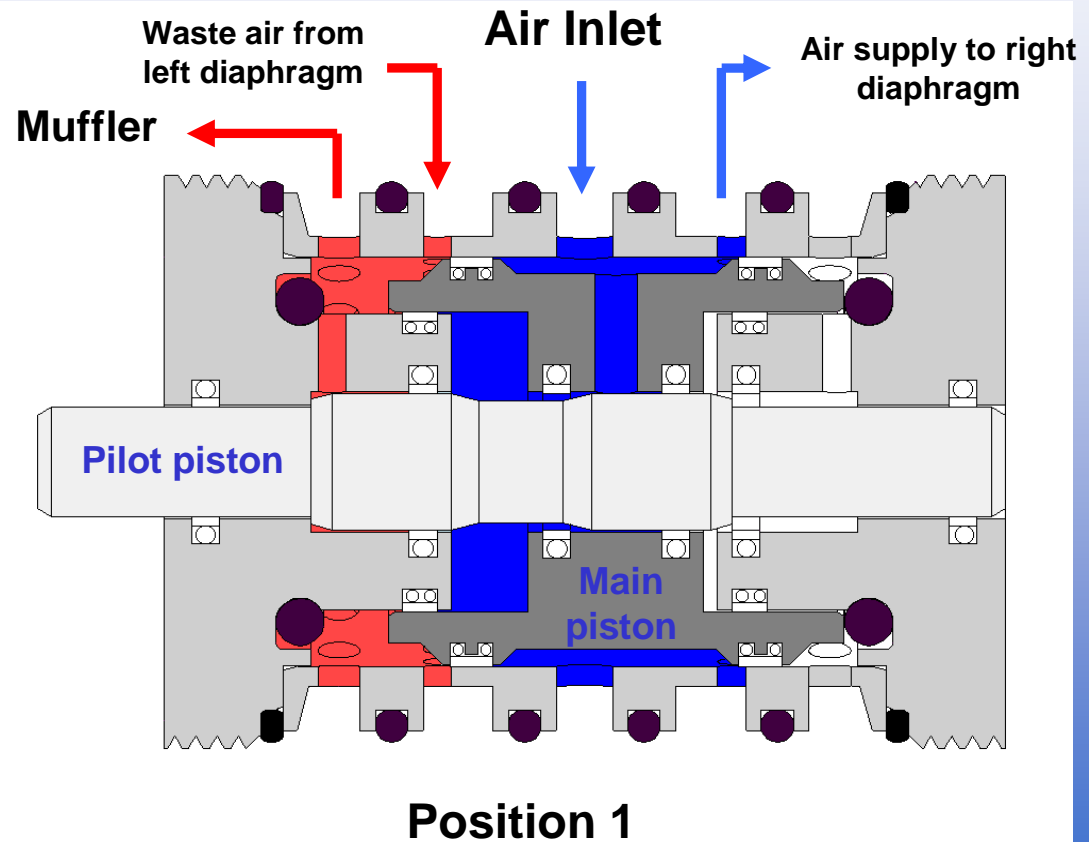


- Only four different parts
- Replacement as a complete cartridge
- 4 cartridge sizes depending on the pump size

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Situation - 1

In the Pos. 1 illustrated, the central pilot piston is located in its left position. The main piston surrounding the pilot piston is on the right. The supply-air is flowing via the chamber in between the gliding surfaces on the outside of the main piston to the right diaphragm via the bore holes in the housing. In parallel, air flows through the transversal hole in the main piston and a small canal onto the left inner surface of the main pistons fixed to the right by this.



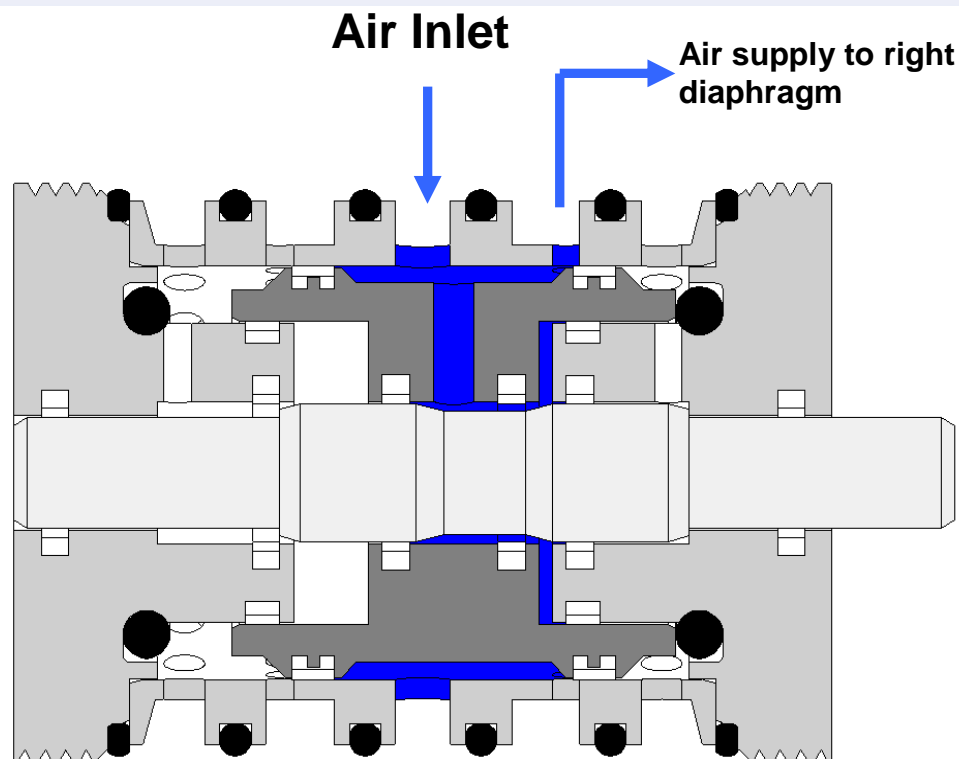
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Situation - 2

In Pos. 2, the main piston is still standing on the right, supply-air still flows to the right diaphragm. However, the left diaphragm has just reached the position to move the pilot piston to the right.

Now, the supply-air can pass via the transversal hole in the main piston and the canal opened alongside the pilot pistons onto the right inner surface of the main pistons, which as a result starts moving to the left.

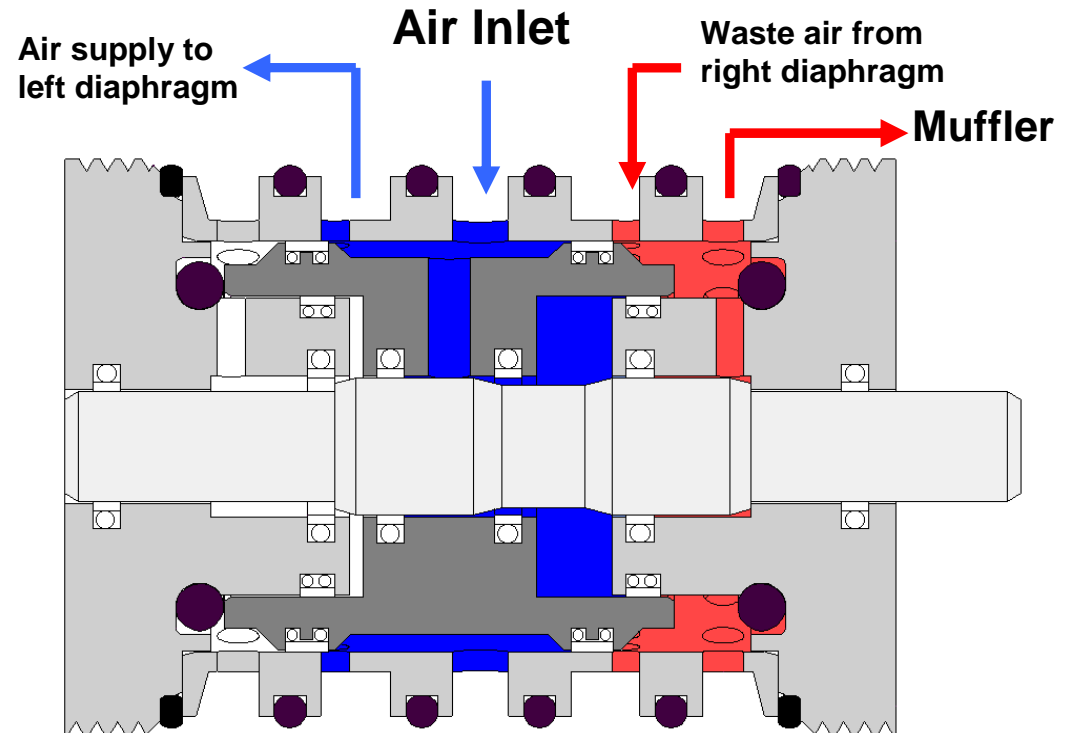


Position 2

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Situation - 3

While the pilot piston is still on the right, the main piston has been moved to the left. The supply-air now flows to the left diaphragm and fixes the main piston to the left via the transversal hole. The right air chamber is ventilated, the diaphragms are moving back to the left.



Position 3

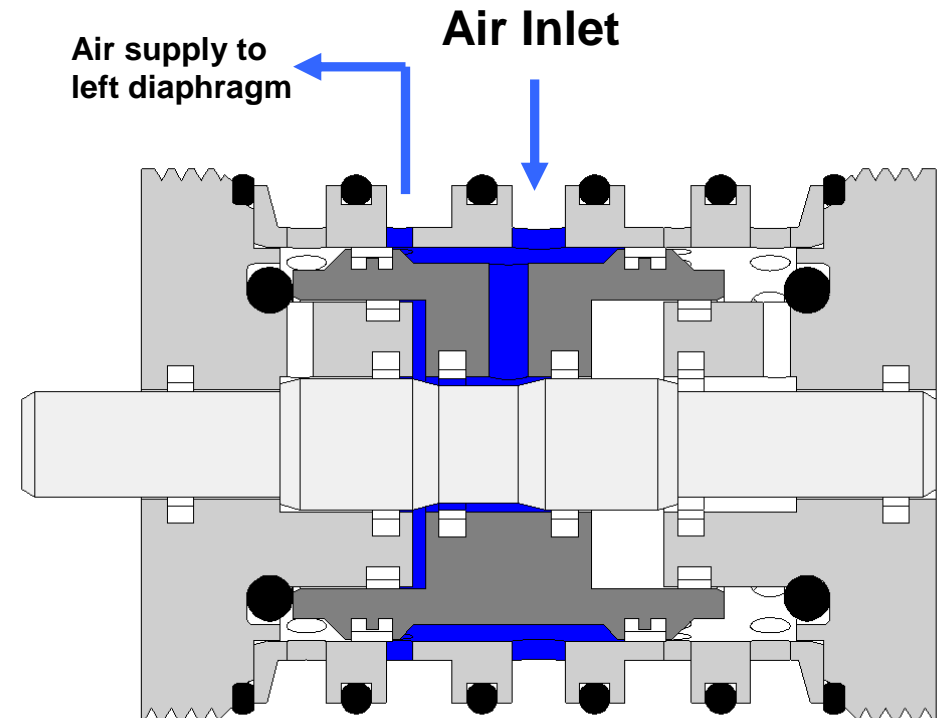
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Situation - 4

The diaphragms have reached their left end position. The right diaphragm has pushed the pilot piston to the left.

The supply-air can now flow via the transversal hole in the main piston and the canal opened alongside the pilot pistons onto the left inner surface of the main piston, which will start moving to the right.

The next situation will be identical to Pos. 1.



Position 4