SERIES CL03 CLEAN LINE PNEUMATIC VALVES CLOSE TO THE ACTION!
CL03 Clean Line Pneumatic Directional Control Valves

The AVENTICS Clean Line series was specifically designed to handle your high pressure washdown applications. There is no need to mount the valve manifolds in a cabinet - the high flow Clean Line valve system has an IP69K (better than NEMA 6P) protection class rating. Our serial communication options for industrial networking allows the use of AVENTICS advanced diagnostic capabilities.

Hygienic design....
Easy to clean
Space between valve covers make it easy to clean. No pockets for particles to collect. Fiber reinforced polyamide material withstands detergents and aggressive chemicals.

Washdown applications
IP69K protection able to withstand up to 1450 psi (100 bar) high pressure washdown. Skip expensive cabinet mounting. Mount valves closer to the actuators, reducing cycle time and pressure loss; thus, increasing machine efficiency.

Online configurator and catalog
Online configurator to design your own custom, factory assembled manifold, without worrying about mistakes. Get part number, CAD drawings and documents immediately.

Flexibility, modularity and high flow
Standalone single valve or manifolds. Flows up to 1.1 Cv (1100 l/min). Each valve can be individually supplied with two different pressures → up to 32 different pressures on one valve manifold! Circuit cards integrated in each subbase. Easily expanded up to 16 valves. Optimize your application to increase cycle time and save on energy costs.
Series CL03 from AVENTICS
The ideal valve system for best possible food safety

Processing, producing, and packaging food and beverage products requires particular sensitivity. The laws, directives and standards governing the requirements are very strict with the aim of maximum food safety. Predestined for applications in these industries, the Series CL03 Clean Line pneumatic directional control valves from AVENTICS were developed with specific attention to the strict criteria in these industries, making it the ideal valve system for these applications.

- EHEDG-Certified with bus connection: First ever valve terminal system to be awarded EHEDG certification (European Hygienic Engineering & Design Group), in January 2010.
- High IP69K protection class: Ideal for cleaning at high pressures and temperatures, and against common cleaning chemicals; allows the pneumatic system to be used in areas of direct contact with food products.
- Modular design with many variants: Discrete wiring or direct bus connection; two sizes, CL03 (0.85 Cv) and CL03-XL (1.1 Cv), can be assembled on the same valve terminal system; and a single CL03-EV valve (0.7 Cv)
- Increased energy efficiency through targeted pressure regulation: Setting pressures valve-by-valve with up to 32 differing pressures in a single system allows for optimizing system pressures, thus increasing energy efficiency. You use only the amount of air needed per actuation.
- Less air consumption through reduction in hose lengths: Long hose lengths require higher volumes to fill and yields higher pressure loss within the system. Reduction in hose lengths results in lower air volumes and, in turn, less air consumption. The Series CL03 can be installed close to the action, thus reducing pressure loss and air consumption, while increasing machine efficiency and through-put with the pneumatic drives next to the actuators.

<table>
<thead>
<tr>
<th>Designation</th>
<th>Meaning</th>
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<tbody>
<tr>
<td>IP65</td>
<td>Protected against low-pressure jets of water from all directions</td>
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<tr>
<td>IP66</td>
<td>Protected against strong jets of water</td>
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<tr>
<td>IP67</td>
<td>Protected against the effects of immersion in water at a depth of 1 m</td>
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<tr>
<td>IP68</td>
<td>Protected against the effects of continuous immersion in water at a depth exceeding 1 m</td>
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<tr>
<td>IP69K</td>
<td>Protected against high-pressure water and steam jet cleaning</td>
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Designation Meaning

- **Process control**
- **"Cleaning In Place" (CIP)**
- **Mixing plant**
- **Cooking unit**
- **Filling and welding in thermaforms**
- **Example: Chocolate manufacturing process**
Variants and accessories

- Manifolds with Multipin and Fieldbus connectivity
- Threaded ports (Metric only). Nickel-plated brass or Stainless Steel fittings (Inch or Metric)
- Combine CL03 (0.85 Cv) and CL03-XL (1.1 Cv) without transition
- CL03-EV (0.7 Cv) Single valve
- Threaded ports (Metric only). Nickel-plated brass or Stainless Steel fittings (Inch or Metric)
- Full line of mating IP69K cables and connectors
- RC01 Remote Control to allow manual override of valves without having to remove protective covers
- Sealing for internal panel mounting

The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.