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Robolux Valve

Developed for more compact process design

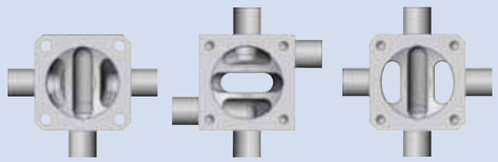
bürkert
FLUID CONTROL SYSTEMS

- No dead volume
- Higher functionality in one housing
- Saves on diaphragms and valves
- Available in stainless steel or other specific alloys
- Considerably shorter process time
- Now available with On-Top control head

Double the Independence

The secret of the patented design of the Robolux valve lies in the capability of realizing two independent process switching functions with one diaphragm. This reduces installation expense and complexity, eliminates the need for T-connectors and minimizes the number of valves and diaphragms that would otherwise normally be required. The innovative multi-port valve improves process design, particularly in which valuable products are handled and in which the plant footprint is an issue.

Multi-port diaphragm valve type 2036



Different valve body solutions

EPDM diaphragm for type 2036-3236 Robolux version

A Revolution in Space/Performance Ratio

The new generation of multi-way, multi-port diaphragm valves was developed for ultra-pure installations. It offers the option of designing complex systems in a much more compact package. In downstream processes in particular, the Robolux valve convinces by minimizing volumes and dead volumes. Another advantage: simple and efficient cleaning procedures.

No Dead Volumes!

This is the groundbreaking feature of the pneumatically controlled or optionally manually controlled innovations made of stainless steel and PVDF or PP plastic. Starting immediately, it is now possible to use a new basis for calculation in the field of sterile applications. Process time is shortened and the costs for otherwise required valves and diaphragms are reduced to a minimum.

Integration: a System Advantage

Robolux block valves are particularly well-suited to a system approach. Their integrability allows existing process sequences to be converted to Robolux and redesigned, consequently achieving a reduction in the number of components. Simplification of the piping system and its components results in savings on space requirements, installation and maintenance costs.

New: Feedback and control heads

In a compact unit the equipment automates functions for the two independently controllable drive halves. The compact body, is especially distinguished by its hygienic design, adverse cleaning agents against resistant materials and a practical high IP protection. Using a DIP-switch for adaptation to the respective drive size.

Technische Daten

Valve body

- Stainless steel 1.4435/316L, other alloy on demand
- from 1/4“ up to 2“, DN4-DN50
- end connections according to the current piping dimension from hygienic industry
- surface finish internal <0,6 um mechanical polished
- Electropolished on demand

Diaphragm

- EDPDM with FDA and USP Class VI certificate
- advanced PTFE vulcanized on EPDM with FDA and USP Class VI certificate

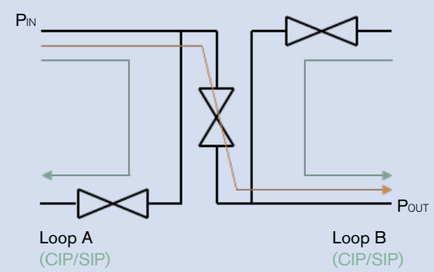
Actuator

- full stainless steel
- optical indication
- design optimized for cleaning

Feedback head type 8685 and control head type 8686

- Contactless valve position registration
- Coloured illuminated status display
- Fieldbus AS- Interface
- Version for Namur electric circuit

Example system solution:



front side *back side*

Robolux with control head

Control head type 8686

Feedback head type 8685