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High-precision control with outstanding speed

Electromotive process control valve Types 3360 & 3361

bürkert
FLUID CONTROL SYSTEMS

- Electrical solution for maximum efficiency
- Stable processes with optimal operating parameters
- Easy to clean due to compact, hygienic design
- Robust construction for high reliability

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High-precision control with outstanding speed

The advantages of electromotive drives are getting more attention in process automation. As simple, intelligent systems they offer diverse opportunities for process optimisation and cost savings. With the electromotive seat valve Type 3360/3361 Bürkert offers a complete process valve that sets new standards with respect to performance, reliability and cost-effectiveness.

Steam control in CIP system

PERFORMANCE – Highest control precision and travel speed for stable processes
Electromotive drives feature outstanding control resolution and repeat accuracy. A new aspect of the Type 3360/3361 is the significantly higher control speed of 6 mm/s compared with conventional electromotive solutions. Compared to pneumatic, spring-balanced drives, it approaches the desired position virtually without delay and without overshooting. It keeps the position of the control plug stable, even if pressure surges occur in the medium. Programmable control speed, lifting and closing limit, soft starting and stopping, diagnostic capabilities such as monitoring of operating data – these are the additional advantages of the innovative drive concept of the Type 3360/3361. The customer benefits from stable processes with optimal operating parameters.

RELIABILITY – Robust design ensures high reliability
Only high-quality components are used in the Type 3360/3361. A brushless DC motor with a planetary gear achieves linear motion via a low-friction, permanently lubricated ball screw. Its position is kept stable without additional energy consumption. The time-proven, self-adjusting spindle packing provides a reliable and permanent seal against the medium. Harsh ambient conditions are no problem for the robust body with protection type IP65 (IP67 on request), which also features an easy-to-clean, closed design. In case of a power failure the safety position can be approached via the optional energy storage SAFEPOS energy-pack. An additional emergency manual override is also possible. All of these features guarantee reliable operation and a long service life.

COST-EFFECTIVENESS – Simple, innovative system for maximum cost-effectiveness
The cost-effectiveness of a system depends largely on the day-to-day operating costs. Type 3360/3361 electromotive drives enable low energy costs and savings at the entire plant. Low energy costs because no expensive compressed air is needed. The innovative ball screw solution also results in a high degree of efficiency, which further reduces operating costs. With respect to the overall plant, use of the Type 3360/3361 can eliminate the need for a compressed air system entirely, reduce the load on such a system or allow it to be build back. IP control cabinets as well as pneumatic control lines in the field are likewise unnecessary. That saves costs for investment, commissioning, maintenance and energy. The result for the customer: higher cost-effectiveness of the overall system.

EDIP PLATFORM-CONCEPT - Future-oriented, user-friendly electronic platform
The abbreviation EDIP stands for Efficient Device Integration Platform – the electronic platform for the new Bürkert device generation. A standardised control and display concept , in addition to effective communication between the devices, will simplify operation and enhance user-friendliness in the future. EDIP consists of hardware and software components, as well as intelligent mechanisms.

powered by EDIP

Type 3361 globe process control valve

Technical data & features

Type 3360 angle seat control valve
Type 3361 globe control valve

Kvs values	0.4 … 37 m³/h
Connection / seat diameter	DN 10 … DN 50 / DN 3 … DN 50 (in future up to DN 100)
Operating pressure (max.)	16 bar (up to DN 32)
Line connections	Flange, thread, weld, clamp
Media	Neutral gases, water, alcohols, oils, fuels, hydraulic fluids, saline solutions, alkaline solutions, organic solvents, steam
Medium temperature	▪ –10 …+ 185 °C (seat seal steel / steel) ▪ –10 … + 130 °C (seat seal PTFE / steel)
Voltage supply	24 V DC
I/Os	▪ Analog: 1 input, 1 output ▪ Digital: 1 input, 2 outputs
Field bus	Ethernet, Profinet, Modbus (other will follow)
Service interface	büS via Bürkert Communicator
Safety position	Optionally via SAFEPOS electrical energy storage pack