

> TEL' 800-325-1405 > WWW.BURKERT-USA.COM

# GENERAL PURPOSE SOLENOID VALVE SYSTEMS

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SYSTEM FAMILY

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Solenoid Valve Systems from Burkert are suited to operate with neutral, aggressive and contaminated fluids, steam and other high temperature media. For contaminated media Burkert offers solenoid valves with isolating diaphragms.

Burkert's uncompromising quality is evident in our range of solenoid valves. They are available in stainless steel, brass or engineered plastics (PVDF, PVC, Teflon). A wide range of seal materials have been proven for use with acids, lyes, steam, corrosive and toxic fluids. Water valves are developed in a compact and water hammer free design. Burkert has introduced several HazEx<sup>™</sup> Solenoid Valve Systems with global approvals.



Type 6038 Solenoid Steam Valve

Port Size	10/32" to 2–1/2"		
Fluid Connections	NPT, BSP, Subbase		
Body Material	Brass, Stainless Steel, PVC, PP, PVDF		
Seal Material	Viton <sup>®</sup> , Buna, EPDM, Teflon <sup>®</sup>		
Operation	Direct acting, internally piloted, zero differential		
Functionality	2–way and 3–way, normally closed, normally open, proportional		
Approvals	UL recognized, UL listed, FM Class I, Div II FM Class I, Div I CSA, CGA, CE, ATEX, and more		
Coils	Epoxy, Polyamide		
Electrical Connections	DIN style cable plugs, conduit plugs, spade terminals, flying leads		

CE





Viton® and Teflon® are registered trademarks of DuPont

### 6213

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- Zero-Differential As Standard
- DIN Plug As Standard
- Short Delivery Times As Standard
- Burkert Innovations
  - Unique Isolating Diaphragm
  - Speed Control Standard
  - Manual Override Standard
    - Normally Open or Normally Closed
      - 1/2"-2" Brass and Stainless Steel

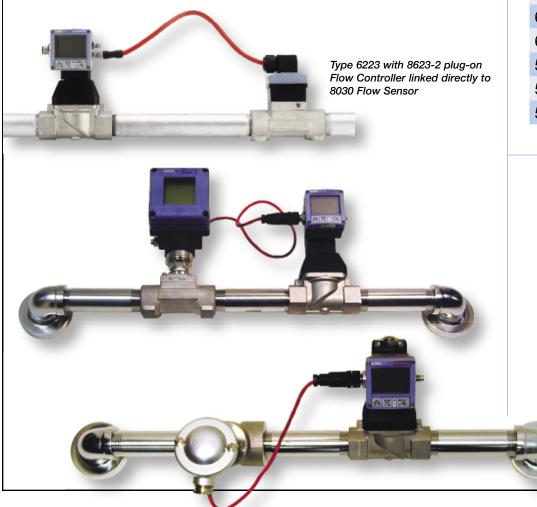
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High Cycle Life > 20 Million Cycles
Manual Override Standard
Unique Isolating Diaphragm
Optional Mechanical Position Feedback
Excellent Corrosion Resistance
1/4" Brass, Stainless Steel and Subbase (331)

## GENERAL PURPOSE SOLENOID VALVE SYSTEMS

### Burkert's Closed Loop Continuous Control Solenoid Valves

Valves	Size	Plug–On Pl	Controllers
6022	1/4″	8623–2	Flow
6023	3/8″	8624–2	Pressure
6223	3/8″–1″	8625–2	Temperature



### **Explosion Proof Valves**

5282

Burkert Offers a Wide Range of FM Approved Class I, Div. I Valves





"Innovative Manifold Designs Customized to Meet Your Application Requirements"

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# INTELLIGENT VALVE SYSTEMS

Burkert's program of process valves includes Globe; Y-Pattern Globe (angle-seat); General Purpose and Sanitary Diaphragm; and ball valves. Valves are available for ON/OFF or modulating control operation. The pipe sizes range from  $1/4^{"}$  through 4". Industry standard port connections including threaded, welded, Tri–Clamp<sup>®</sup>, or flanged. A variety of pilot valves, valve banks, positioning, and PID control systems satisfy the multitude of customer requests.

Long life with very low maintenance is a key factor in customer loyalty. The excellent control provided with our positioning systems is another key factor. Integrated PID combined with the ability to direct link to a sensor, allows easy sourcing and the lowest Total Cost of Ownership. Operation through a PLC using any standard BUS protocol provides even greater flexibity.

# THE BURKERT 2000 VALVE

- The longest lasting valve in process systems
- 5 million water service cycles guaranteed
- Fit it and forget it!
- Now Tube End, Tri–Clamp<sup>®</sup>
- Now in ANSI globe pattern to replace ball valves in high cycle applications without changing your piping (Type 2012)

Decentralized Closed Loop Proportional Flow System



Type 2031 Diaphragm with PID TOP Control



Four Type 2712's 1.5" with remote PID position control

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Proposition of the second 1200 2000 units

# PROCESS VALVE SYSTEMS



#### Commissioning

 Automatic optimum calibration of actuator to valve

#### Sensor inputs

measured values:

- 4–20 mA
- Frequency
- PT100
- Optional external setpoint adjustment via PLC (4–20mA)



Dual Type 2632 Angle Seat Valves with TOP Control for Hot and Cold Water Control.

#### Operation

- Large LCD display
- Three key, menu guided programming
- Programmable control valve characteristics

#### Installation

- Compact design utilizing Burkert angle seat, globe, diaphragm or ball valve
- Detailed technical documentation
- Wide range of end connections



The spectrum of Process Valve Systems contains angle seat valves, globe valves, diaphragm and ball valves.

Designed for either ON/OFF or Continuous Control. TOP and SIDE Control units with Decentralized Intelligence are designed to be combined with almost every process valve.

They have an integrated positioner with a PID controller that can be connected directly to a sensor or PLC, and are available with common fieldbus communication. The advantages are obvious: programmable flow characteristics, low wiring costs and improved communication methods resulting in an optimized Total Cost of Ownership.

## DIAPHRAGM VALVES

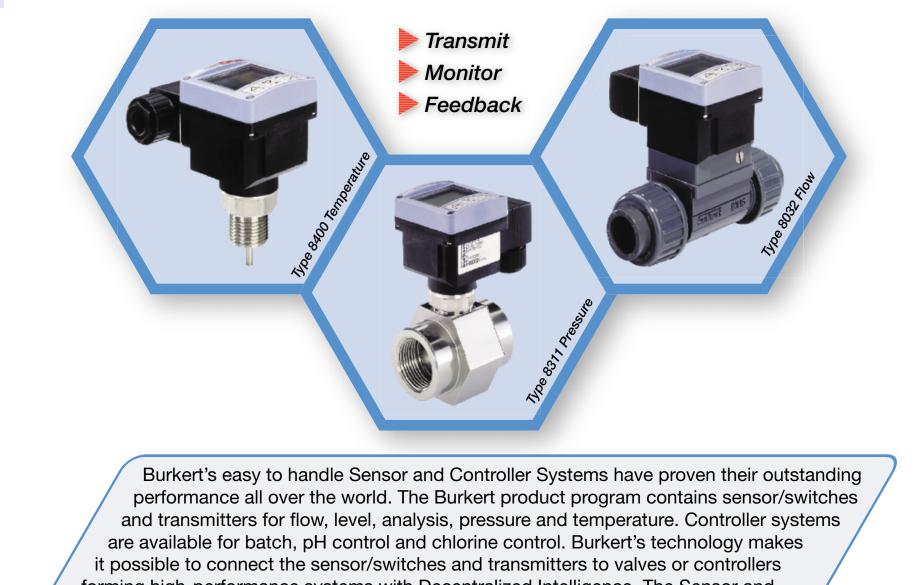
The Burkert diaphragm valve is available in almost any configuration our customers have requested, with Stainless Steel and Plastic body options, for use in Food & Beverage (FDA); Pharmaceutical, Water Treatment, and other industries. These are available in manual; ON/OFF; and continuous control operations.

- Sterile/Tandem Access
- Þ GMP
- Þ Diverter
- Þ Tank Bottom
- ON/OFF or continuous control
- Positioner with integral PID controller

1/4" Manual Bio-tek valve and 3" Diaphragm with PROFIBUS DP

# BURKERT SENSORS "ALL-IN-ONE"

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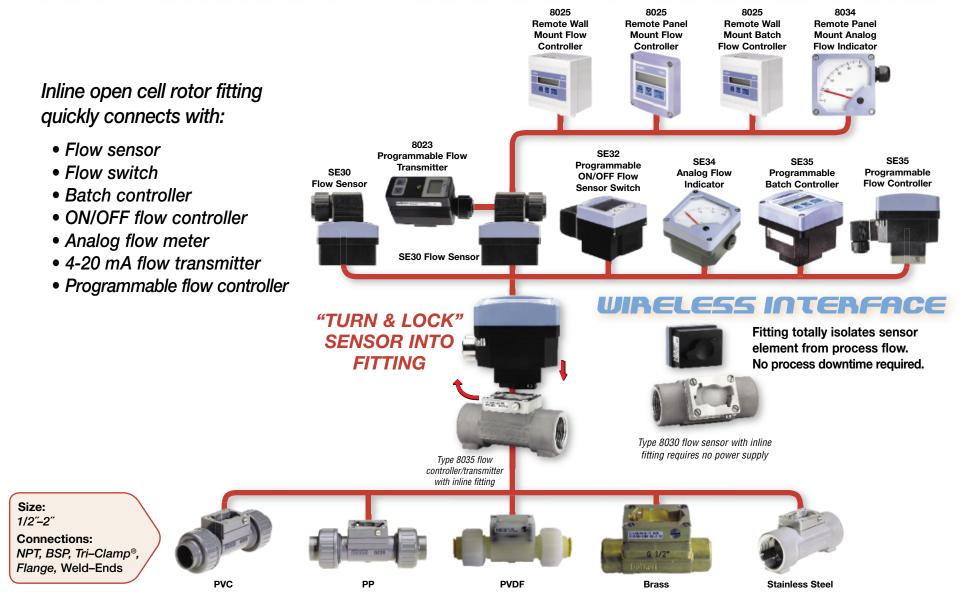
forming high-performance systems with Decentralized Intelligence. The Sensor and Controller Systems from Burkert optionally include a fieldbus interface compatible with common fieldbus protocols.

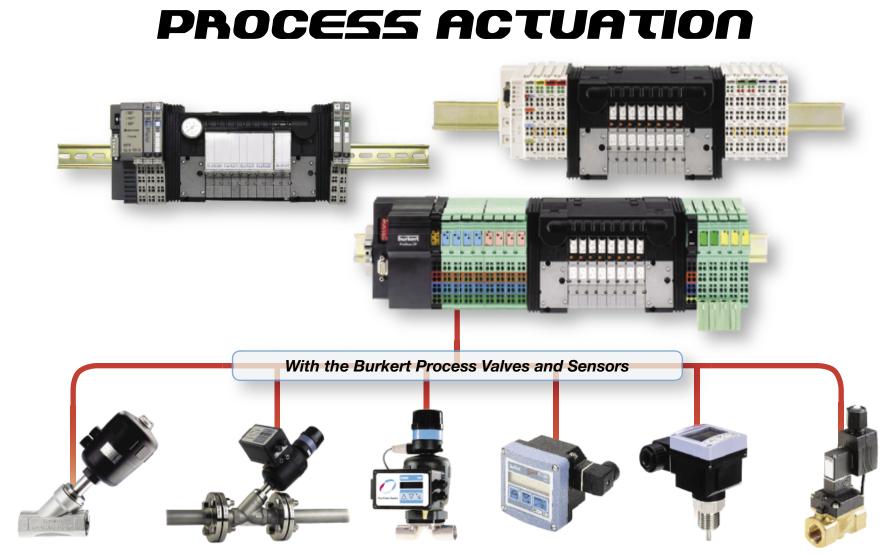
### EASY TO USE, TRANSMITTERS AND CONTROLLERS FOR





## YOUR CHOICE OF FLOW CONTROL SOLUTIONS





Burkert's unique remote process actuation control system, AirLINE, offers virtually any combination of valve island functionality, electronic inputs and outputs and fieldbus connectivity in an extremely compact and revolutionary design. The next generation of pneumatic pilot valves allows very high flow rates. Airline leaves the freedom to choose between Phoenix Contact INLINE, WAGO 750, Allen Bradley Point I/O and Siemens ET200S electronic modules. It creates a fully integrated fieldbus communication, process valve actuation and control platform combined with the industry leader in I/O bus communication. Imagine the possibiliites.

