



this month's topic **Valves**

**Solenoid Valve is Built for Long-Life Applications**



The High Flow direct-mount solenoid valve is a cost-effective solution for general-purpose valve actuator applications in the chemical process, pulp and paper, food and beverage, and pharmaceutical industries. The valve has a life expectancy of up to 5 million cycles, and is built with an anodized aluminum body and a stainless steel spool, with

internal parts made of brass. The compact valve features a NAMUR mounting pattern and is designed for direct mounting in any position on a NAMUR interface. It can handle high flowrates from 1.2 to 3.0 Cv, and operates over a fluid temperature range of 32°F–122°F and a pressure range of 30–150 psi. A spring return allows fail-safe operation in the event of a power loss, and a screened exhaust nut protects valve function during outdoor use. In addition, the O-ring seal design increases sealing force at higher pressures and offers less breakaway resistance at lower pressures. The valves are offered with Class F DIN and Class H hazardous location coils. Hazardous coil

enclosures meet FM and CSA agency approvals for Class I Groups A–D and Class II Groups E–G.

**Parker Hannifin**  
[www.parkerfluidcontrol.com](http://www.parkerfluidcontrol.com)

**Pneumatic Solenoid Valves are Available in Many Configurations**



The energy-efficient E Series family of pneumatic solenoid valves is specifically engineered for air and dry gas applications, and features a low power con-

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 INTALOX ULTRA technology is protected by US patent and various pending applications worldwide.

**Rugged.  
Modular. Easy.**

**SAMSON**



The SAMSON Type 3241 Globe Valve is ruggedly designed and built to handle the most demanding conditions of any processes involving the flow of liquids, gases and vapors. Its modular design gives the user the flexibility to incorporate a variety of features to meet their applications. The SAMSON TYPE 3241 truly gives you many advantages:

- EASY to change trim
- EASY to add bellows
- EASY to change packing
- EASY to change actuator fail position
- EASY to set up and calibrate without an expensive hand held device

Call or visit our website to see how easy it can be to make all of your control valve problems disappear.

**SAMSON CONTROLS INC.**  
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## Product **Digest**

sumption of just 0.65 W. A nickel-plated body and coil housing construction make it highly durable and corrosion resistant. These solenoid valves feature a compact cylindrical body, with diameters less than 0.75 in. (19 mm) and lengths under 2 in. (50.8 mm), and orifice sizes ranging from 0.032 in. to 0.078 in. (0.81 to 1.98 mm). They are available in a variety of two- and three-way configurations, including normally open, normally closed, and multipurpose and directional-control three-way models. Several seal and O-ring options are available.

### **Gems Sensors & Controls**

[www.gemssensors.com](http://www.gemssensors.com)

### **Ball Valves have a Range of Control Options**

The Type 131 and Type 133 electrically actuated ball valves are adaptable to a variety of conditions and applications — from simple on/off control to more-sophisticated automated flow control using the optional PE25 flow control positioner to continually and precisely move the valve to the desired position. The valves are available in polyvinyl chloride (PVC), chlorinated polyvinyl chloride (CPVC), polypropylene, and polyvinylidene fluoride (PVDF), and in sizes of 3/8 in. to 4 in. Available pneumatic positioners provide further flexibility, and special characterized balls are available for more-precise linear control.



### **GF Piping Systems**

[www.gfpiping.com](http://www.gfpiping.com)

### **Specialized Valves are Designed for Urea Service**

Clampseal Urea Service Valves are designed to control the flow in high-pressure piping used in urea reactors, strippers, and condensers handling ammonium carbonate, nitric acid, and urea process fluids. These valves comply with all international standards including ISO 9001, and can handle pressures through ASME/ANSI Class 2500. They come in 0.5–4-in. sizes with flanged end, hub connector, or weld end options, and feature a pressure-actuated back seat; integral gland wrench; modular, interchangeable body styles; and axial-loading packing system. Available accessories include electric, pneumatic and hydraulic actuators; open, closed, or both open and closed locking devices; single or dual limit switches; and position indicator.



### **Conval, Inc.**

[www.conval.com](http://www.conval.com)