

Your Valve AUTHORITY

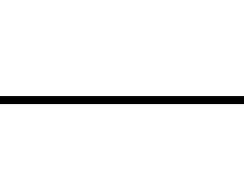
Simply, industrial valves control critical fluid-system flow. But it's not usually that simple to choose the ideal valve for your particular application.

For instance, do you need to stop and start flow? Control flow direction? Regulate flow level? Prevent system overpressure?

Here's Your Handy VALVE PRIMER,

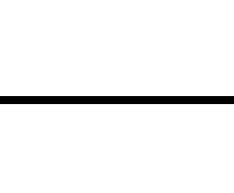
presented by Swagelok, your global leader in the design, make, and supply of premium-quality, ultra-safe, leak-tight Componentry and Strategic Support Services:

BASIC VALVE FUNCTIONS:



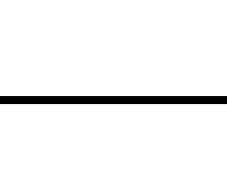
On / Off:

Start or stop the flow of liquid



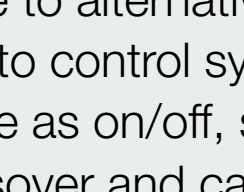
Directional Control:

Ensure that flow is headed in desired direction



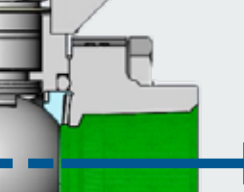
Flow Control:

Help adjust the flow through a system



Overpressure Protection:

Prevents system pressure buildup beyond a set limit



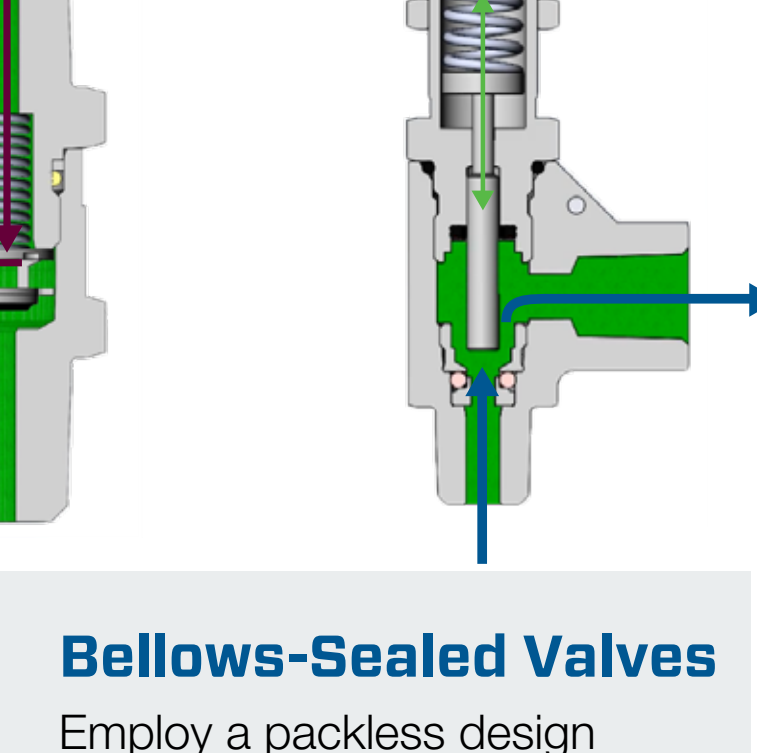
Excess Flow Control:

Contain uncontrolled release of system media

PRIMARY VALVE TYPES:

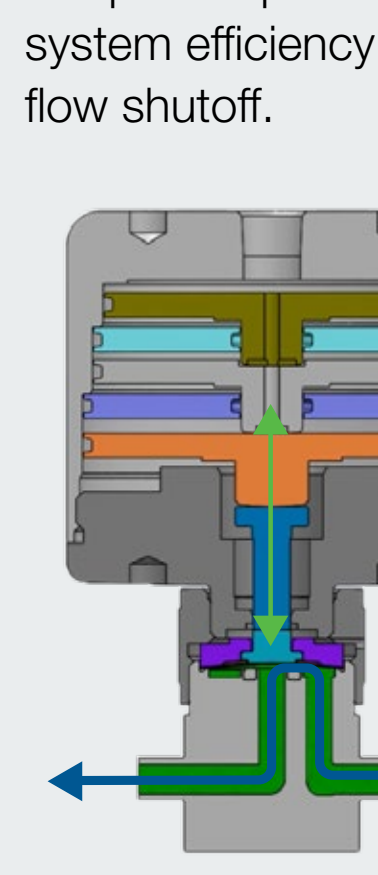
Ball Valves

Can be used in a wide array of applications – from general purpose to alternative fuel service to control system flow. Available as on/off, switching, or crossover and can be made or configured to address a vast range of specifications.



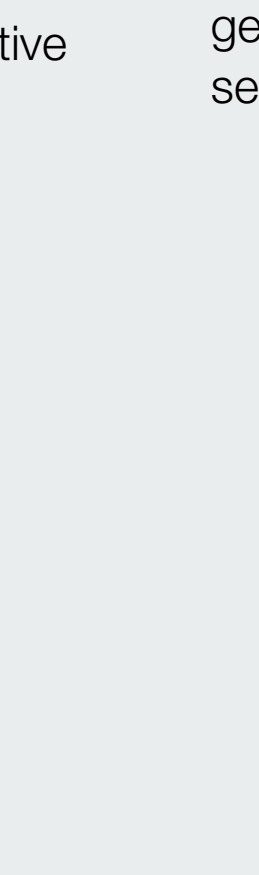
Plug Valves

Deliver full flow and positive shutoff in a compact design.



Check Valves

Control back flow in general-service and high-purity applications.



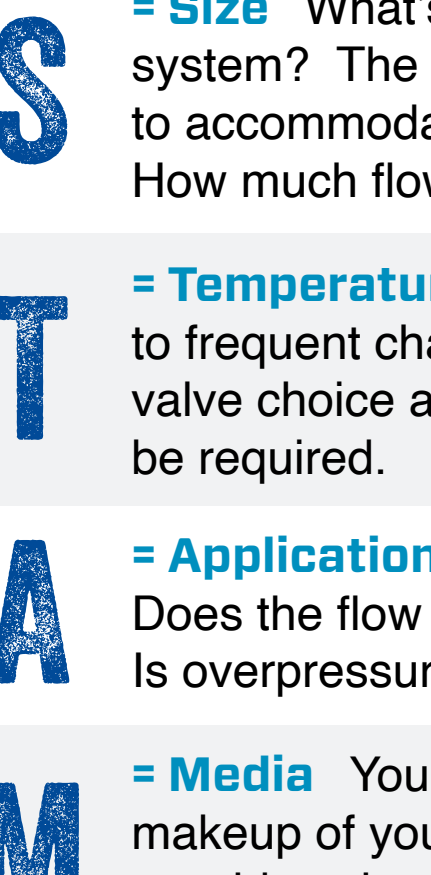
Relief Valves

Safeguard against overpressure.



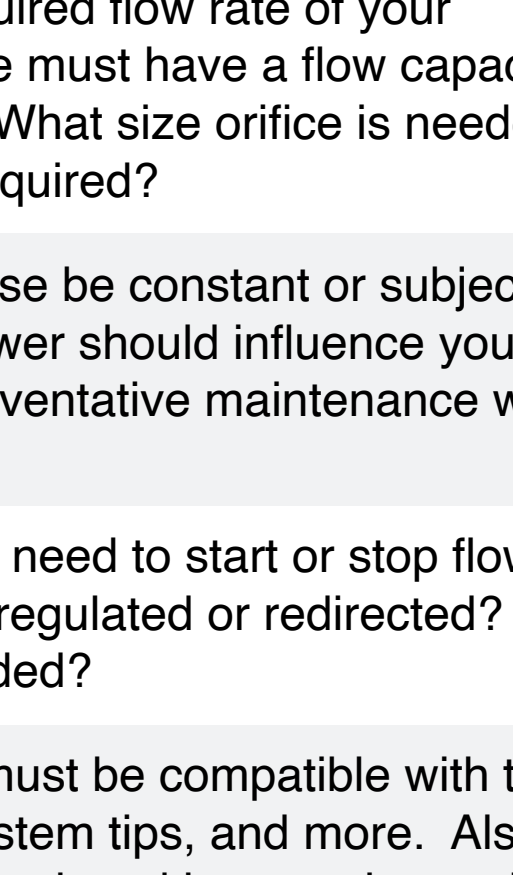
Diaphragm-Sealed

Minimize entrapment and facilitate purging with a fully swept flow path for improved system efficiency and effective flow shutoff.



Bellows-Sealed Valves

Employ a packless design and welded seal to prevent leaks to atmosphere in general and high-purity service.



VALVE SELECTION GUIDE:

S = Size What's the desired/required flow rate of your system? The size of your Valve must have a flow capacity to accommodate such. Also: What size orifice is needed? How much flow resistance is required?

T = Temperature Key: Will these be constant or subjected to frequent changes? The answer should influence your valve choice and how often preventative maintenance will be required.

A = Application Does the valve need to start or stop flow? Does the flow level need to be regulated or redirected? Is overpressure protection needed?

M = Media Your system media must be compatible with the makeup of your bodies, seats, stem tips, and more. Also consider where the valve will be placed into service and, thus, subjected to weather variances.

P = Pressure Two types to consider: Working, or your system's normal operating pressure, and Design, the maximum pressure limit specified by the valve manufacturer.

E = End Connection Multiple choices available: tube fittings, pipe threads, flanges, welded ends... Just be certain, to avoid leakage, that whatever you select is sized correctly and can handle your system pressure and temperature.

D = Delivery Simply: When do you need them? How many do you need?

DELIVERING IN THE MOST DEMANDING ENVIRONMENTS

The new Swagelok® GB Series General-Purpose, Bi-Directional, Full-Flow Ball Valve will slash your installation, maintenance, and inventory costs – no matter how challenging your (up to 6000 psig) Oil and Gas or Chemical and Refining application.

Available in 1/2" or 7/8" bore sizes and in corrosion-resistant materials such as 316/316L, Alloy 2507, 6-Moly, Alloy 625, Alloy 825, and Alloy C-276, our new GB component is equipped with innovative, live-loaded seats to maintain shutoff at low and high pressure changes in temperature. For enhanced safety, it has mechanically locked end screws that will not rotate even when installing/removing the largest end connections. Plus, a reliable stem seal is provided that, among numerous other advantages, features directional stem flats that show you whether valve is open or closed; a bottom-loaded stem that prevents blowout; and a grounding spring that ensures antistatic protection.

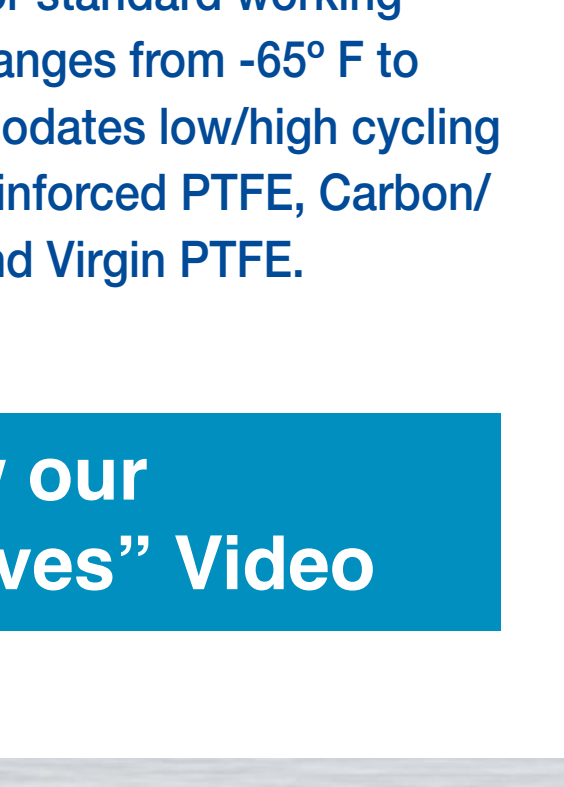
No O-rings are required, so you'll have zero compatibility concerns with most hydrocarbons, solvents, or strong acids. And the GB's special body bolt pattern enables rapid and economical installation of a lockout handle, panel mount, or pneumatic actuator by your local Fabrication experts at Swagelok Pittsburgh | Tri-State Area.



60-SERIES

Swagelok's renowned quarter-turn **60-Series Ball Valves** – designed to be operated in a fully open or fully closed position – have been awarded an API 641 Test Certificate for Methane service. In addition to their low-emissions recognition, these premium-quality components feature a unique, swing-out design that enables fast and easy in-line maintenance....so there's no need to shut down your entire fluid system to, when necessary, replace worn seals. That means substantially less downtime labor and costs involved.

Available with a wide array of end connections and handles – and in your choice of stainless steel, brass, carbon steel, or special alloy bodies – our On-Off (2-way) and Switching (3-way) 1/8" to 2" 60-Series offerings are ideal for standard working pressures up to 2,200 psig and temperature ranges from -65° F to 850° F. A compensating seat design accommodates low/high cycling pressures. Seat material options include: Reinforced PTFE, Carbon/Glass PTFE, UHMWPE, Alloy X-750, PEEK, and Virgin PTFE.



Click here to view our "Selecting the Right Valves" Video

For complete Swagelok Industrial Valve and other Product information, contact:

Gary Osman,
Swagelok Field Engineer



gary.osman@swagelok.com

412.761.3212

WE DELIVER
DIFFERENCE-MAKING
SOLUTIONS:

Products | Strategic Support Services | Application Know-How



Industry-Best Componentry

Masterful Custom Fabrication

Expert Safety Training

Extensive Energy Evaluations

Unparalleled Application Knowledge

Comprehensive Hose Advisories

Proven Inventory Management Support

Genuine Swagelok Tool Rentals

The Brand. The Inventory. The Expertise.

WE'RE YOUR SWAGelok FLUID-SYSTEM SOLUTIONS PROVIDER

Unparalleled Application Knowledge

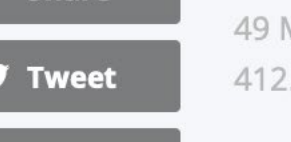
Comprehensive Hose Advisories

Proven Inventory Management Support

Genuine Swagelok Tool Rentals

The Brand. The Inventory. The Expertise.

WE CAN HELP YOU SAVE TIME, MONEY, AND WORRY:



Share

Tweet

Share

Forward

Swagelok Pittsburgh | Tri-State Area
419 Meade Avenue, Pittsburgh, PA 15202
412.761.3212

All service marks and trademarks shown are owned and registered by Swagelok Company. © 2023 Swagelok Company. www.swagelok.com

You are receiving this email as a valued contact of Swagelok Pittsburgh | Tri-State Area.

[Preferences](#) | [Unsubscribe](#)