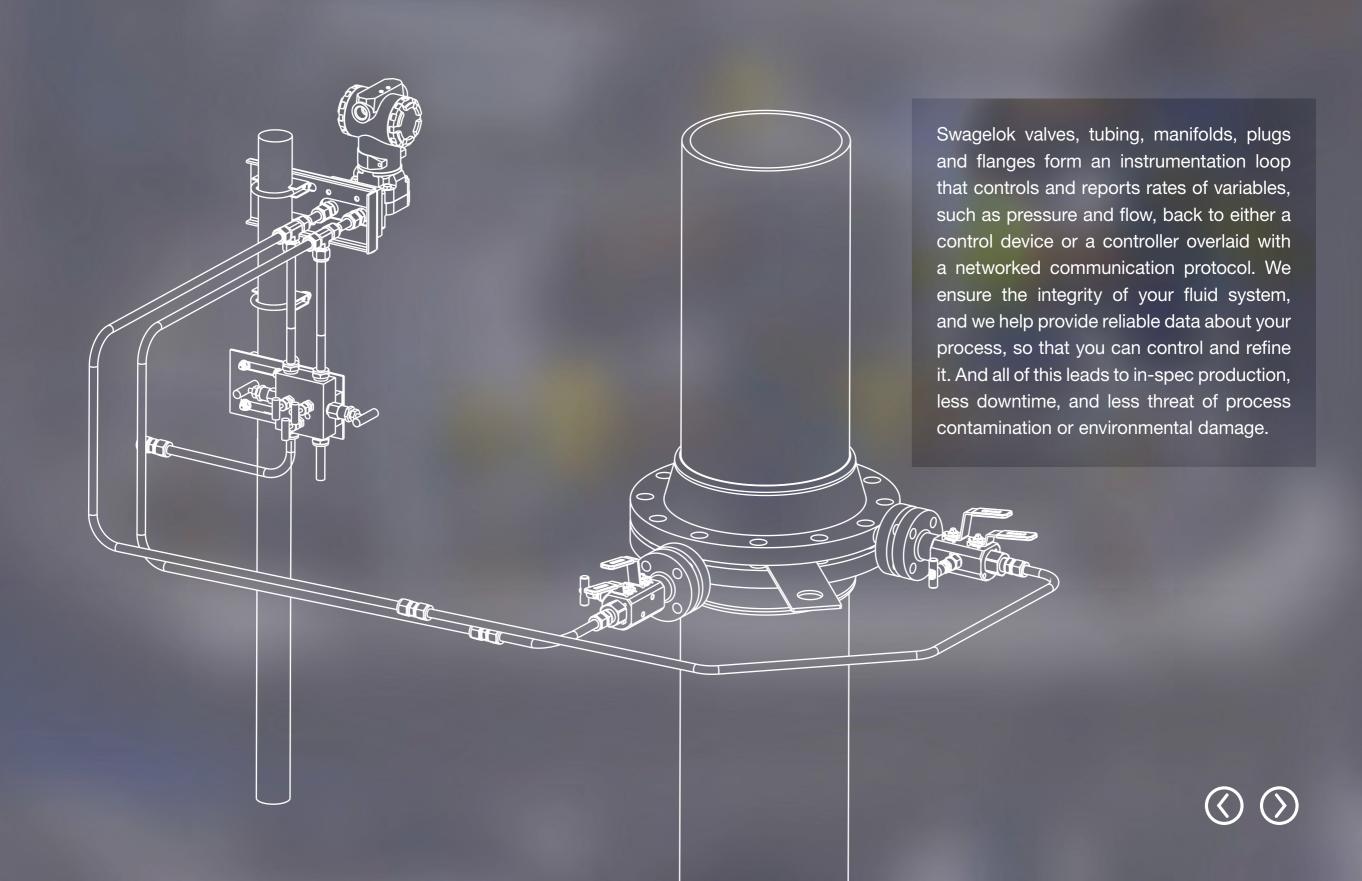


# What is the measure of system performance?



# Process Instrumentation Loop



### Instrumentation Valves ( ) Control flow for process

instrumentation loops



#### Manifolds ①

Ensure reliable fluid distribution



#### **Process Interface Valves** (>)

Transition from process to process instrumentation loop



Fittings ()

Ensure leak-tight fluid system connections





## Process Interface Valves



#### VB04 and VB03 series valves ①

Transition smoothly from the process piping system to instrumentation in a single configuration

- Fewer potential leak points
- Bore sizes from 3/8 to 2 in. (9.5 to 50 mm)
- Variety of end connections including Swagelok Tube Fittings

#### Monoflanges ()

Reduce loading and vibration stress with compact, lightweight design

- Replace multi-valve assemblies with single, flange-mounted configurations
- Fewer potential leak points

#### **VB05** series valves ①

Reduce fugitive emissions in process instrumentation loops

- High density graphite packing for fugitive emissions service
- Adjustable packing

#### VB0451 series valves ⊙

Control the flow of particulate-containing liquids efficiently in process instrumentation loops

- Metal seated double-block and bleed design
- Extended temperature range

#### **VNO3 HPHT series valves** ①

Maintain performance in high-pressure, high-temperature services

- Integral hub options
- Especially suited for demanding applications

#### **VN01** series valves **()**

Isolate and vent fluids and gasses for safety in process instrumentation loops

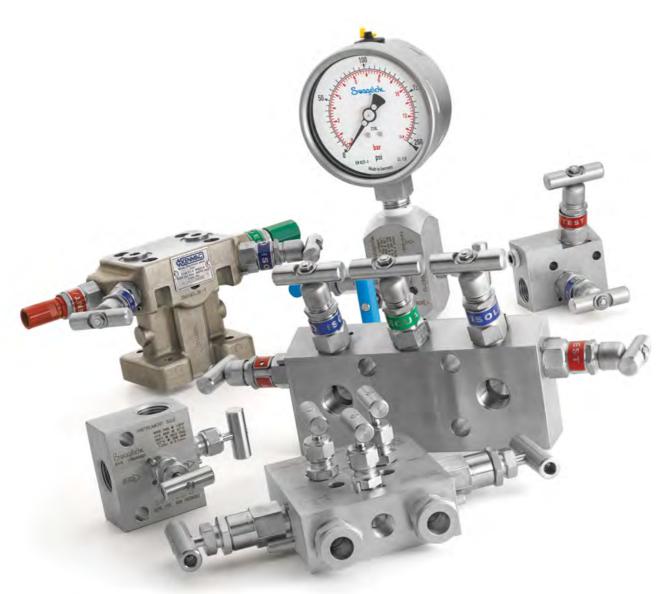
- Non-rotating isolation and vent needle valves
- Variety of end connections







## Manifolds



#### V series instrument manifolds ①

Maintain stable pressure in process instrumentation loops

- 2-, 3-, and 5-valve manifolds
- V series in-line manifold in single block and double block configurations
- Direct and remote mount configurations
- ASME B31.1 compliance
- High-temperature service options

#### VE series direct-mount manifold (>)

Achieve accurate transmitter readings by reducing leaks with direct manifold mounting

- Anti-tamper handle options
- 2-, 3-, and 5-valve manifolds
- High-temperature service options

#### MSBG remote-mount series manifold (>)

Ensure positive flow shutoff in process instrumentation loops

- Angle vent valve for panel mounting
- High-temperature service options
- Compact design

#### Mod 85 modular manifold ()

Maintain pressures in process instrumentation loops

- Allows pre-assembly that can reduce field installation and costs
- 2- and 4-valve options







## Instrumentation Valves



#### J6 distribution manifold ()

Maximize your fluid or gas distribution options

- Compact versatile distribution manifold for liquid and gas applications
- Four to eighteen needle valves and outlet connections

#### 6P series gauge valves (>)

Connect gauges to measure system pressure

- Non-rotating ball-tip and plug-tip stem designs
- Straight-through ("roddable") plug-tip design
- Lagging extension body available for insulation clearance
- Schedule 160 pipe wall or heavier on valve inlet fitting for strength

#### 6DB instrumentation blow down valve ①

Maintain safety while stabilizing pressure

- GRAFOIL® packing for high-temperature performance
- Union bonnet construction for safety

#### 4P and 5P series rising plug valves ①

Maintain maximum system fluid flow for greater throughput

- Straight-through ("roddable") orifice
- Replaceable seals and seats

#### O, 1, and 18 series integral bonnet-needle valves 🕥

Ensure system safety with high-pressure shutoff

- Live loaded packing system
- · Vee, soft-seat, and regulating stem options

#### 60 series ball valve (>)

Achieve reliable process information with dependable valve action

- Quarter-turn
- Live loaded, two-piece stem packing
- Compensating seat design
- Pneumatic and electric actuator options







## Fittings



#### Flange adapters (>)

Transition smoothly from pipe to tubing for continuous process flow

- Threadless, weldless transition from flanged piping systems to tubing systems
- Meets ASME, DIN, EN and JIS standards
- One-piece integrally machined forged body

#### Calibration fittings (>)

Reduce the time necessary for calibration set-up

- Only the bleed port tap requires removal to access transmitter ports
- Eliminates galling of transmitter NPT body threads

#### Tube fittings **⊘**

Ensure fluid system integrity by reducing potential leak points

- Suitable for use in a variety of process instrumentation applications
- Unique geometry for a robust tube grip and leak-tight seal
- Specially designed for vibration resistance

#### Pipe fittings ()

Easily connect pipe for optimum fluid system layout without welding

- Angles on elbows, tees, and crosses manufactured for accurate piping layout
- Smooth thread flanks provide sealing and minimize galling
- Meets ASME B1,20.1 and SAE AS7105 standards







# Swagelok maximizes system performance

You're never alone when you choose Swagelok. Not only do we have the products, but we provide customized solutions, too. We consider your operating environment and account for factors such as vibration, temperature extremes, and the accessibility of devices. Our products, like the directly mounted manifold that reduces the effects of vibration, are especially optimized for process instrumentation loops. Temperature- and pressure-rated components allow installation even in harsh environments. And Swagelok's ongoing commitment to quality helps ensure that your data is reliable— every time.

**Select the right products.** Choose products and connect with a single source to authorized Swagelok Sales and Service Centers worldwide. Product selection tools right where and when you need them, to help you choose the exact product for your job. Learn more at swagelok. com/services/product-selection-support.aspx. (5)

Keep products on hand or within arms' reach. Dynamic processes require available products. Swagelok can provide customized inventory management services as well as just-in-time delivery for optimum stock levels. Learn more at swagelok.com/services/supply-chain-management.aspx. ()

**Learn what you need to know.** Help your employees or contactors acquire skills in fluid system technologies, orbital welding, valve selection, steam fundamentals, and tube bending, among more than a hundred other class offerings. Learn more at swagelok.com/services/training-education.aspx. ①

Keep your process instrumentation system up and running all the time. Rent backup equipment from us to keep your processes up and running smoothly. Learn more at swagelok. com/services/plant-maintenance-efficiency.aspx. ①

We're Global. And Local. Isn't it good to know you can count on Swagelok for availability and support? A world-class manufacturer with global representation and over 200 local sales and service centers. So expertise and support is always close at hand— wherever in the world you are.

Find your local distributor at swagelok.com.

