



Valtek® FlowTop™ GS General Service Control Valve

Reliable performance, improved uptime and lower total cost of ownership

The FlowTop GS control valve (types V746 and V748) helps plant owners and operators improve the reliability and uptime of production processes while minimizing operating and maintenance costs. Designed for general service applications, the FlowTop GS valve is a competitively priced, fully integrated valve-actuator-instrumentation package for continuous process flow loop control throughout the plant.

The FlowTop GS valve is engineered to deliver high flow rates and optimum control at minimum total cost. It does this by pursuing the simple design philosophy of building an instrumented control valve package that provides the breadth and depth of engineered control within the trusted name of Valtek.

The FlowTop GS integrated control valve package consists of the FlowTop globe body assembly, Logix™ digital positioner (with automatic calibration) and FlowAct™ pneumatic diaphragm actuator. Its clamped seat ring allows faster, simplified trim changes without lapping requirements and minimizes unforeseen downtime instances by assuring reliable, tight shutoff.

The integrated design makes the FlowTop GS valve an economical solution to buy, install, operate and maintain. Proven quality and best-in-class performance are accompanied with:

- Competitively priced, fully integrated valve-actuator-instrumentation solution
- High flow rates with excellent rangeability and repeatability
- Quick installation and simple setup without the need for instrument or process engineering skills
- Clamped seat ring design for quick repair or replacement of trims without the need for lapping
- Anti-noise and anti-cavitation, severe service trim options for minimizing noise and cavitation damage
- ISO 15848-1 Class B CC1 and ISO 15848-1 Class C fugitive emissions packing available
- Broad application versatility with trim and material options, including NACE MR0175, that cover all general service requirements
- Direct-mounted digital positioner without tubing (air-to-open)



Key components

- FlowTop globe body assembly valve
- Logix digital positioner (with automatic calibration)
- FlowAct pneumatic diaphragm actuator

Features and benefits

- **Minimized total cost of ownership** from a smaller, lighter, fully integrated package solution that is offered at competitive prices and is economical to buy, install, operate and maintain.
- **Wide application range** owing to contoured plug design with high adaptability, equal percentage, and linear and quick-open flow characteristics. In addition, it can be matched to a variety of trim types, providing excellent rangeability, repeatability and resolution.
- **Reduced downtime and simplified maintenance** from tight-shutoff, clamped seat rings that come standard and allow easy removal or replacement of trim without special tools or lapping. Additionally, it eliminates galling problems associated with threaded seat rings.
- **Longer service life** from anti-noise and anti-cavitation trims that mitigate noise and cavitation-related damage. Engineered guiding solutions minimize vibration and wear by stabilizing the plug and stem during valve travel.
- **Reduced environmental impact and improved safety** ensured by compliance with ISO 15848-1 Class B CC1 and ISO 15848-1 Class C fugitive emissions packing options.

Specifications

Style	Globe, integral flange, ASME B16.34
Sizes	½ to 6 in
Pressure classes	ASME 150 and 300
End connection	Flanged, RF
Body materials	A216WCC, A351CF8M, A351CF3M
Face to face	ISA 75.08.01
Bonnet	standard, extended, bellows seal
Packing	PTFE and graphite, live loaded, ISO 15848-1 or vacuum
Trim material	Stainless steel 410, 316, 316L
Trim types	standard, pressure balanced
Plug and seat facing	seat or full contour Alloy 6, hardened
Characteristic	= %, linear, quick open
Low noise and anti-cavitation	MegaStream™ one-stage CavStream one-stage
Leakage rates	Class IV, V and VI with optional soft seat
Actuator	Pneumatic diaphragm spring actuator
Standard positioner	Logix 420, direct-mounted without tubing

