

Electronic Globe Valves

G2...(S), G3...(D) Series

G2...(S)	Two-way Screwed Bronze or Stainless Trim
G3...(D)	Three-way Screwed Bronze Trim

Three-way Valves available in Mixing or Diverting

½" to 2"

Service	Chilled/hot water, 60% glycol, steam (G2, G2S)
C_v Range	0.4-40 (Two-way) 2.2-41 (Three-way Mixing) 4.4-40 (Three-way Diverting)
Material	Stainless steel stem, Bronze plug or Stainless plug
Control	On/Off, Floating, 2-10 VDC Multi-Function Technology® Spring Return or Non-Spring Return



FEATURES

- Self-adjusting stroke
- Visual sliding stroke indicators
 - Position indicators adjusted automatically
- Assembly can be mounted with valve stem horizontal to the pipe
- Self locking valve coupling

BENEFITS

- Utilizes full control signal for maximum resolution
- Speeds installation and system check
- Piping flexibility
- Proper valve-actuator connection is ensured

Electronic Flanged Globe Valves

G7...(S) Series

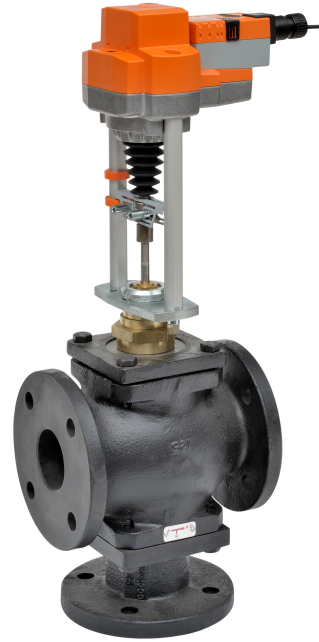
G7...(S) **Three-way Flanged
Bronze or Stainless Trim**

G7...(S)-250 **Three-way Flanged
ANSI 250 Bronze or
Stainless Trim**

Three-way Valves available in Mixing or Diverting

2½" to 6"

Service	Chilled/hot water, 60% glycol, steam (G6, G6S)
C_v Range	68-340 (Three-way Mixing) 68-248 (Three-way Diverting)
Material	Stainless steel stem, Bronze plug or Stainless plug
Control	On/Off, Floating, 2-10 VDC Multi-Function Technology® Spring Return or Non-Spring Return



FEATURES

- Complete flanged product range
- Mixing or diverting options
- Multi-Function Technology®
- ANSI 125/ANSI 250

BENEFITS

- Fits wide range of applications
- Capable of any control signal
- Suitable for piping systems

Pressure Compensated Flanged Globe Valves

G6...C Series

G6...C	Two-way Pressure Compensated
G6...CS	Two-way Pressure Compensated Stainless Steel Trim
G6...LCS	Two-way Pressure Compensated Stainless Steel Trim Linear Characteristic
2½" to 6"	
Service	Chilled/hot water, 60% glycol, steam
C_v Range	65 – 344
Material	Stainless steel stem, Bronze plug or Stainless plug
Control	On/Off, Floating Multi-Function Technology® Spring Return or Non-Spring Return



FEATURES

- Balanced Plug Design
- Spring Return Solutions for up to 6" Valves
- Bronze or Stainless Trim

BENEFITS

- Perfect for high close-off requirements
- Fail-safe on larger valves
- Covers wide range of operating temperatures
- Equal percent (G6C) (G6CS) or linear characteristic (G6LCS) for steam applications

Control Valve Product Range

Globe Valve Product Range

C _v	Valve Nominal Size		Type		Suitable Actuators		
	Inches	DN [mm]	2-way NPT	3-way NPT	Non-Spring Return	Spring Return	Electronic Fail-Safe
0.4	½	15	G212	–	LV Series	LF Series	LVK Series
1.3	½	15	G213	–			
2.2	½	15	G214	–			
4.4	½	15	G215	–			
0.4	½	15	G212S	–			
1.3	½	15	G213S	–			
2.2	½	15	G214S	G314			
4.4	½	15	G215S	G315			
4.4	½	15	–	G315D			
5.5	¾	20	G219	–			
7.5	¾	20	G220	–			
5.5	¾	20	G219S	–			
7.5	¾	20	G220S	G320			
7.5	¾	20	–	G320D			
10	1	25	G224	–	SV Series	NF Series	SVK Series
14	1	25	G225	–			
10	1	25	G224S	–			
14	1	25	G225S	G325			
14	1	25	–	G325D			
20	1¼	32	G232	–			
20	1¼	32	G232S	G332			
20	1¼	32	–	G332D			
28	1½	40	G240	–			
28	1½	40	G240S	G340			
28	1½	40	–	G340D			
40	2	50	G250	–			
40	2	50	G250S	–			
41	2	50	–	G350			
40	2	50	–	G350D			



Mode of Operation

The control valve is operated by an electronic actuator that responds to a standard voltage for on/off control, by a proportional VDC/4...20 mA, 3-point control system. The actuator will then move the plug of the valve to the position dictated by the control signal thus changing the flow.

Product Features

Equal percentage characteristic of flow for G2, linear characteristic for G3.

Actuator Specifications

Control type	on/off, floating point, 2-10 VDC multi-function technology (MFT)
Manual override	all models except LF
Electrical connection	3 ft [1 m] cable with ½" conduit fitting

Valve Specifications

Service	chilled or hot water, 60% glycol, steam
Flow characteristic	G2 - equal percentage G2S, G3, G3D - linear
Sizes	½" - 2"
End fitting	NPT female ends
Materials	
Body	bronze
Stem	stainless steel
Plug	brass stainless steel: G2..S
Seat	bronze stainless steel: G2..S
Packing Disc / Seal	spring loaded TFE composition G2 Teflon® G2...S none G3, G3D
Media temp. range	refer to valve specification pages in this section
Body pressure rating	250 psi G2, G3..., ½" - 2"
Maximum inlet pressure	
Steam	35 psi (241 kPa) G2 100 psi (690 kPa) G2...S
Maximum differential pressure (ΔP)	
Water	35 psi (241 kPa)
Steam	20 psi (138 kPa) G2 35 psi (241 kPa) G2...S
Rangeability	5:1 (G212..) 15:1 (G213..) 25:1 (G214..) 40:1 (G215..) 50:1 (G219..) 60:1 (G220.., G224..) 75:1 (all others) 500:1 (G3..)

Control Valve Product Range

Globe Valve Product Range

C _v	Valve Nominal Size		Type	Suitable Actuators		
	Inches	DN [mm]		2-way Flanged	Non-Spring Return	Spring Return
65	2½	65	G665C	EV Series	AFX Series	AVK Series
65	2½	65	G665CS			
65	2½	65	G665C-250			
65	2½	65	G665CS-250			
65	2½	65	G665LCS			
90	3	80	G680C			
90	3	80	G680CS			
90	3	80	G680C-250			
90	3	80	G680CS-250			
90	3	80	G680LCS			
170	4	100	G6100C			
170	4	100	G6100CS			
170	4	100	G6100C-250			
170	4	100	G6100CS-250			
170	4	100	G6100LCS			
263	5	125	G6125C			
263	5	125	G6125CS			
263	5	125	G6125C-250			
263	5	125	G6125CS-250			
263	5	125	G6125LCS			
344	6	150	G6150C			
344	6	150	G6150CS			
344	6	150	G6150C-250			
344	6	150	G6150CS-250			
344	6	150	G6150LCS			

The G...(C)(CS)(LCS) Series valve is a pressure compensated valve that allows high close-off ratings while utilizing standard actuation.



Mode of Operation

The control valve is operated by an electronic actuator that responds to a standard voltage for on/off control, a proportional VDC/4...20 mA, or 3-point control system. The actuator will then move the plug of the valve to the position dictated by the control signal thus changing the flow.

Product Features

Equal-percentage characteristic for G6. Linear characteristic for G6...LCS

Actuator Specifications

Control type	on/off, floating point, 2-10 VDC multi-function technology (MFT)
Manual override	all models
Electrical connection	3 ft [1 m] cable with ½" conduit fitting

Valve Specifications

Service	chilled or hot water, 60% glycol, steam
Flow characteristic	G6 A-port equal percentage linear G6LCS linear
Sizes	2½" - 6"
End fitting	flanged
Materials	Body cast iron Stem stainless steel Plug brass Seat bronze: G6 stainless steel: G6..S
Packing	G6 bronze trimmed: NLP G6S stainless trimmed: NLP
Media temp. range	refer to valve specification pages in this section
Body pressure rating	G6, 125# ANSI flange 125 psi G6, 250# ANSI flange 250 psi
Maximum inlet pressure	Water 150 psi (1034 kPa) G6C, G6CS 250 psi (1724 kPa) G6C...250, G6CS...250 Steam 35 psi (241 kPa) G6C, G6C...250 50 psi (345 kPa) G6CS, G6CS...250 100 psi (690 kPa) G6CS, G6CS...250
Maximum differential pressure (ΔP)	Water 25 psi (172 kPa) G6C, G6C...250 50 psi (345 kPa) G6CS, G6CS...250 Steam 15 psi (103 kPa) G6C, G6C...250
Rangeability	85:1 (G665..), 91:1 (G680..) 98:1 (G6100..), 100:1 (G6125..) 98:1 (G6150..)

Control Valve Product Range

Globe Valve Product Range



C _v	Valve Nominal Size		3-Way Flanged	Suitable Actuators		
	Inches	DN [mm]		Non-Spring Return	Spring Return	Electronic Fail-Safe
68	2½	65	G765	EV / RV Series	AFX Series	AVK Series
68	2½	65	G765S			
68	2½	65	G765-250			
68	2½	65	G765S-250			
91	3	80	G780			
91	3	80	G780S			
91	3	80	G780-250			
91	3	80	G780S-250			
190	4	100	G7100			
190	4	100	G7100S			
190	4	100	G7100-250	RV Series	GK Series	AVK Series
190	4	100	G7100S-250			
280	5	125	G7125			
280	5	125	G7125S			
280	5	125	G7125-250			
280	5	125	G7125S-250			
340	6	150	G7150			
340	6	150	G7150S			
340	6	150	G7150-250			
340	6	150	G7150S-250			
68	2½	65	G765D	EV Series	AFX Series	AVK Series
68	2½	65	G765DS			
68	2½	65	G765DS-250			
85	3	80	G780D			
85	3	80	G780DS			
85	3	80	G780DS-250			
154	4	100	G7100D			
154	4	100	G7100DS			
154	4	100	G7100DS-250			
195	5	125	G7125D			
195	5	125	G7125DS			
195	5	125	G7125DS-250			
248	6	150	G7150D			
248	6	150	G7150DS			
248	6	150	G7150DS-250			

Mode of Operation

The control valve is operated by an electronic actuator that responds to a standard voltage for on/off control, a proportional VDC/4...20 mA, or 3-point control system. The actuator will then move the plug of the valve to the position dictated by the control signal thus changing the flow.

Product Features

Linear characteristic

Actuator Specifications

Control type	on/off, floating point, 2-10 VDC multi-function technology (MFT)
Manual override	all models
Electrical connection	3 ft [1 m] cable with ½" conduit fitting

Valve Specifications

Service	chilled or hot water, 60% glycol
Flow characteristic	linear
Sizes	2½" - 6"
End fitting	flanged
Materials	
Body	cast iron
Stem	stainless steel
Plug	brass
Seat	
G7	bronze
G7...S	stainless steel
Packing	
G7	bronze trimmed: NLP
G7...S	stainless trimmed: NLP
Media temp. range	Refer to valve specification pages in this section
Body pressure rating	
G7, 125# ANSI flange	125 psi
G7, 250# ANSI flange	250 psi
Maximum inlet pressure	
Water	150 psi (1034 kPa) G7, G7S 250 psi (1724 kPa) G7...250, G7S...250
Maximum differential pressure (ΔP)	
Water	25 psi (172 kPa) G7, G7...250 50 psi (345 kPa) G7S, G7S...250
Rangeability	50:1