

VG2x31 Series

Pneumatic Cast Iron Flanged Globe Valves

VG2231 Series Two-Way Normally Open







MP8000 Series Actuators Mounted to VG2231 Two-Way Normally Open Valves

VG2231 Valve

- controls hot or chilled water, 35 psig saturated steam
- ANSI cast iron 125 flange meets ANSI B16.1
- ANSI III closeoff, leakage: 0.1% of maximum flow
- 175 psig static pressure rating water temperatures 35 to 150°F; decreasing to 125 psig at 281°F
- maximum recommended operating pressure drop: 35 psig
- maximum actuator supply pressure: 25 psig
- inherent flow characteristics: modified linear
- packing EPT ring packs, field replaceable
- bronze seat and plug, stainless steel stem field replaceable
- · disk stainless steel filled PTFE

MP8000 Series Actuators

- direct coupled field or factory mounted
- three sizes 25, 50, and 100 sq in. effective diaphragm area
- · rugged, industrial-grade steel construction
- · spring action field reversible
- optional pneumatic or electro-pneumatic positioner

For complete details, refer to Product/Technical Bulletin LIT-977133.

To Order

Specify the code number from the selection chart.

Selection Chart

Spring	g Range		3 to 7 psig		4 to 8 psig		9 to 13 psig				
Valve	Size	Cv	Closeoff	oseoff Code Number		Code Number	Closeoff	Code Number			
	MP82 Series Actuators – 25 sq in. Effective Diaphragm Area										
VG2231TL	2-1/2"	51	53	VG2231TL+823C00	49	VG2231TL+823D00	28	VG2231TL+823E00			
VG2231UL	3"	83	37	VG2231UL+823C00	34	VG2231UL+823D00	19	VG2231UL+823E00			
	MP84 Series Actuators – 50 sq in. Effective Diaphragm Area										
VG2231TM	2-1/2"	51	109	VG2231TM+843C00	100	VG2231TM+843D00	58	VG2231TM+843E00			
VG2231UM	3"	83	75	VG2231UM+845C00	70	VG2231UM+845D00	40	VG2231UM+845E00			
VG2231VM	4"	150	42	VG2231VM+845C00	39	VG2231VM+845D00	23	VG2231VM+845E00			
	MP86 Series Actuators – 100 sq in. Effective Diaphragm Area										
VG2231UN	3"	83	152	VG2231UN+865C00	140	VG2231UN+865D00	81	VG2231UN+865E00			
VG2231VN	4"	150	86	VG2231VN+865C00	79	VG2231VN+865D00	46	VG2231VN+865E00			
VG2231WN	5"	240	55	VG2231WN+867C00	51	VG2231WN+867D00	29	VG2231WN+867E00			
VG2231YN	6"	350	38	VG2231YN+867C00	35	VG2231YN+867D00	20	VG2231YN+867E00			

Optional Positioner - Change the "00" at the end of the code number to either "01" or "02"

Optional Positioner	Mounting Bracket	Туре	Control Input	Output Capacity	Ordering Code
V-9502-95	MP8000-6002	Pneumatic	2 to 12 psig Start 3 to 13 psig Span	1,000 scim – Dual Barbed Fitting 1,600 scim – 1/4" Barbed Fitting	"01"
EPP-1000-8	MP8000-6003	Electro- Pneumatic	0 to 10 VDC 4 to 20 mA 135 ohm Slidewire	476 scim	"02"



VG2x31 Series Pneumatic Cast Iron Flanged Globe Valves (Continued)

VG2431 Series Two-Way Normally Closed





MP8000 Series Actuators Mounted to VG2431 Two-Way Normally Closed Valves

VG2431 Valve

- controls hot or chilled water, 35 psig saturated steam
- ANSI cast iron 125 flange meets ANSI B16.1
- ANSI III closeoff, leakage: 0.1% of maximum flow
- 175 psig static pressure rating water temperatures 35 to 150°F; decreasing to 125 psig at 281°F
- maximum recommended operating pressure drop: 35 psig
- · maximum actuator supply pressure: 25 psig
- inherent flow characteristics: modified linear
- packing EPT ring packs, field replaceable
- bronze seat and plug, stainless steel stem field replaceable
- · disk stainless steel filled PTFE

MP8000 Series Actuators

- · direct coupled field or factory mounted
- two sizes 50 and 100 sq in. effective diaphragm area
- · rugged, industrial-grade steel construction
- · spring action field reversible
- optional pneumatic or electro-pneumatic positioner

For complete details, refer to Product/Technical Bulletin LIT-977133.

To Order

Specify the code number from the selection chart.

Selection Chart

Spring Range		3 to 7 psig		4 to 8 psig		9 to 13 psig			
Valve	Size	Cv	Closeoff	Code Number	Closeoff	Code Number	Closeoff	Code Number	
	MP84 Series Actuators – 50 sq in. Effective Diaphragm Area								
VG2431TM	2-1/2"	54	24	VG2431TM+843C00	32	VG2431TM+843D00	75	VG2431TM+843E00	
VG2431UM	3"	83	17	VG2431UM+845C00	22	VG2431UM+845D00	52	VG2431UM+845E00	
VG2431VM	4"	150	9	VG2431VM+845C00	13	VG2431VM+845D00	29	VG2431VM+845E00	
	MP86 Series Actuators – 100 sq in. Effective Diaphragm Area								
VG2431UN	3"	83	34	VG2431UN+865C00	46	VG2431UN+865D00	105	VG2431UN+865E00	
VG2431VN	4"	150	19	VG2431VN+865C00	26	VG2431VN+865D00	59	VG2431VN+865E00	
VG2431WN	5"	237	12	VG2431WN+867C00	17	VG2431WN+867D00	38	VG2431WN+867E00	
VG2431YN	6"	344	9	VG2431YN+867C00	11	VG2431YN+867D00	26	VG2431YN+867E00	

Optional Positioner - Change the "00" at the end of the code number to either "01" or "02"

Optional Positioner	Mounting Bracket	Туре	Control Input	Output Capacity	Ordering Code
V-9502-95	MP8000-6002	Pneumatic	2 to 12 psig Start 3 to 13 psig Span	1,000 scim – Dual Barbed Fitting 1,600 scim – 1/4" Barbed Fitting	"01"
EPP-1000-8 MP8000-6003		Electro- Pneumatic	0 to 10 VDC 4 to 20 mA 135 ohm Slidewire	476 scim	"02"



VG2x31 Series Pneumatic Cast Iron Flanged Globe Valves (Continued)

VG2831 Series Three-Way Mixing





MP8000 Series Actuators Mounted to VG2831 Three-Way Mixing Valves

VG2831 Valve

- · controls hot or chilled water
- ANSI cast iron 125 flange meets ANSI
- ANSI III closeoff, leakage: 0.1% of maximum flow
- 175 psig static pressure rating water temperatures 35 to 150°F; decreasing to • disk - metal-to-metal 125 psig at 281°F
- · maximum recommended operating pressure drop: 35 psig

- · maximum actuator supply pressure: 25 psig
- · inherent flow characteristics: modified
- packing EPT ring packs, field replaceable
- bronze seat and plug, stainless steel stem field replaceable

MP8000 Series Actuators

- direct coupled field or factory mounted
- two sizes 50 and 100 sq in. effective diaphragm area
- · rugged, industrial-grade steel construction
- · spring action field reversible
- optional pneumatic or electro-pneumatic positioner

For complete details, refer to Product/Technical Bulletin LIT-977133.

To Order

Specify the code number from the selection chart.

Selection Chart

Spring Range		3 to 7 psig		4 to 8 psig		9 to 13 psig				
Valve	Size	Cv	Closeoff	Code Number	Closeoff Code Number		Closeoff	Code Number		
	MP84 Series Actuators – 50 sq in. Effective Diaphragm Area									
VG2831TM	2-1/2"	54	65 / 14	VG2831TM+843C00	60 / 19	VG2831TM+843D00	35 / 45	VG2831TM+843 E00		
VG2831UM	3"	80	45 / 10	VG2831UM+845C00	42 / 13	VG2831UM+845D00	24 / 31	VG2831UM+845E00		
VG2831VM	4"	157	25 / 6	VG2831VM+845C00	23 / 8	VG2831VM+845D00	14 / 18	VG2831VM+845E00		
	MP86 Series Actuators – 100 sq in. Effective Diaphragm Area									
VG2831UN	3"	80	91 / 21	VG2831UN+865C00	84 / 28	VG2831UN+865D00	49 / 63	VG2831UN+865E00		
VG2831VN	4"	157	51 / 12	VG2831VN+865C00	47 / 16	VG2831VN+865D00	27 / 35	VG2831VN+865E00		
VG2831WN	5"	238	33 / 7	VG2831WN+867C00	30 / 10	VG2831WN+867D00	18 / 23	VG2831WN+867E00		
VG2831YN	6"	347	23/5	VG2831YN+867C00	21 / 7	VG2831YN+867D00	12 / 16	VG2831YN+867E00		

Optional Positioner - Change the "00" at the end of the code number to either "01" or "02"

Optional Positioner	Mounting Bracket	Туре	Control Input	Output Capacity	Ordering Code
V-9502-95	95 MP8000-6002 F		2 to 12 psig Start 3 to 13 psig Span	1,000 scim – Dual Barbed Fitting 1,600 scim – 1/4" Barbed Fitting	"01"
EPP-1000-8	MP8000-6003	Electro- Pneumatic	0 to 10 VDC 4 to 20 mA 135 ohm Slidewire	476 scim	"02"