

VG7000 Series

LIT-1900090

Stainless Steel Trim Globe Valves with VA-715x Series Electric Actuators

Description

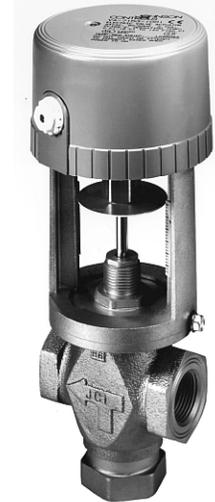
VG7000 Series Stainless Steel Trim Globe Valves with VA-715x Series Pneumatic Actuator control hot or chilled water, or steam.

Features

- 90 lb force provides tight closeoff
- direct coupled – no linkage required
- packing: spring-loaded PTFE and elastomer V-rings
- magnetic clutch protects gearing, ensures tight closeoff
- controls hot water, chilled water, or steam
- fits VG7000 valves 1/2 through 2 in.
- valve body static pressure rating: ANSI Class 250
- factory or field assembly
- voltage: 24 VAC, 50/60 Hz, 4.7 VA

Repair Information

If the VG7000 Stainless Steel Trim Globe Valve with VA-715x Series Non-Spring Return Actuator fails to operate within its specifications, replace the unit. For a replacement valve or actuator, contact the nearest Johnson Controls® representative.



VA-715x Series Electric Actuator mounted on VG7844 Brass Globe Valve

Selection Chart

VG7000 Stainless Steel Trim Globe Valve with VA-715x Series Non-Spring Return Actuator

Actuator Code				VA-7150-1001	VA-7153-1001	VA-7152-1001
Actuator Input				On/Off (Floating)	On/Off (Floating) with Feedback	0 to 10 VDC Proportional
Temperature Range				35 to 338°F Fluid Temperature, 100 psig Saturated Steam		
Valve	Size	Cv	Closeoff	Non-Spring Return		
Two-Way Push-Down-to-Close – NPT End Connections						
VG7243CT	1/2"	0.73	239	VG7243CT+7150G	VG7243CT+7153G	VG7243CT+7152G
VG7243ET	1/2"	1.8	239	VG7243ET+7150G	VG7243ET+7153G	VG7243ET+7152G
VG7243GT	1/2"	4.6	135	VG7243GT+7150G	VG7243GT+7153G	VG7243GT+7152G
VG7243LT	3/4"	7.3	86	VG7243LT+7150G	VG7243LT+7153G	VG7243LT+7152G
VG7243NT	1"	11.6	54	VG7243NT+7150G	VG7243NT+7153G	VG7243NT+7152G
VG7243PT	1-1/4"	18.5	33	VG7243PT+7150G	VG7243PT+7153G	VG7243PT+7152G
VG7243RT	1-1/2"	28.9	21	VG7243RT+7150G	VG7243RT+7153G	VG7243RT+7152G
VG7243ST	2"	46.2	13	VG7243ST+7150G	VG7243ST+7153G	VG7243ST+7152G
Three-Way Mixing – NPT End Connections						
VG7844CT	1/2"	0.73	239 / 308	VG7844CT+7150G	VG7844CT+7153G	VG7844CT+7152G
VG7844ET	1/2"	1.8	239 / 308	VG7844ET+7150G	VG7844ET+7153G	VG7844ET+7152G
VG7844GT	1/2"	4.6	135 / 161	VG7844GT+7150G	VG7844GT+7153G	VG7844GT+7152G
VG7844LT	3/4"	7.3	86 / 96	VG7844LT+7150G	VG7844LT+7153G	VG7844LT+7152G
VG7844NT	1"	11.6	54 / 63	VG7844NT+7150G	VG7844NT+7153G	VG7844NT+7152G
VG7844PT	1-1/4"	18.5	33 / 36	VG7844PT+7150G	VG7844PT+7153G	VG7844PT+7152G
VG7844RT	1-1/2"	28.9	21 / 22	VG7844RT+7150G	VG7844RT+7153G	VG7844RT+7152G
VG7844ST	2"	46.2	13 / 14	VG7844ST+7150G	VG7844ST+7153G	VG7844ST+7152G

VG7000 Series Stainless Steel Trim Globe Valves with VA-715x Series Electric Actuators (Continued)

Technical Specifications

VG7000 Stainless Steel Trim Globe Valves with VA-715x Series Non-Spring Return Electric Actuators		
Service¹		Hot Water, Chill Water, 50/50 Glycol Solutions and Steam for HVAC Systems
Fluid Temperature Limits	Water	35 to 338°F (2 to 170°C)
	Steam	100 psig (690 kPa) Saturated Steam
Maximum Allowable Pressure Temperature	Water	400 psig (2,756 kPa) Up to 150°F (66°C) decreasing to 308 psig (2,122 kPa) at 338°F (170°C)
	Steam	100 psig (690 kPa) Saturated Steam
Valve Body Pressure/ Temperature Rating		Meets Requirements of ANSI B16.15, Class 250
Maximum Recommended Operating Pressure Drop	Water	35 psig (241 kPa) for ½ through 1-1/4 in. valves 30 psig (207 kPa) for 1-1/2 and 2 in. valves
	Steam	100 psig (690 kPa)
Flow Characteristics	Two-Way Valves	Equal Percentage
	Three-Way Valves	Linear Flow Characteristics
Rangeability²		25:1
Leakage		0.05% of Maximum Flow per ANSI/FCI 70-2, Class 4
Actuator Ambient Operating Temperature Limits		0 to 140°F (-18 to 60°C)
Actuator Input Signal	VA-7150-1001	24 VAC Three-Wire Floating Control
	VA-7152-1001	0 to 10 VDC Proportional Control
	VA-7153-1001	24 VAC Three-Wire Floating Control with 0 to 2000 ohm feedback potentiometer for 25/32 in. valve stroke
Actuator Power Requirements	VA-7150-1001	24 VAC (20 to 30 VAC), 50/60 Hz, 2.7 VA Nominal
	VA-7152-1001	24 VAC (20 to 30 VAC), 50/60 Hz, 4.7 VA Nominal
	VA-7153-1001	24 VAC (20 to 30 VAC), 50/60 Hz, 2.7 VA Nominal
Materials	Body	Cast Bronze
	Bonnet	Brass
	Stem	Stainless Steel
	Plug	Stainless Steel
	Seat	Stainless Steel
	Packing	Spring-Loaded PTFE and Elastomer V-Rings

1. Refer to VDI 2035 Standard for recommended proper water treatment.

2. Rangeability is defined as the ratio of maximum controllable flow to minimum controllable flow.