

VG7000 Series Stainless Steel Trim Globe Valves with MP84 Series Pneumatic Actuators

Description

VG7000 Series Stainless Steel Trim Globe Valves with MP84 Series Pneumatic Actuators control hot or chilled water, or 100 psig saturated steam.

Refer to the *VG7000 Series Bronze Control Valves Product Bulletin (LIT-977140)* for important product application information.

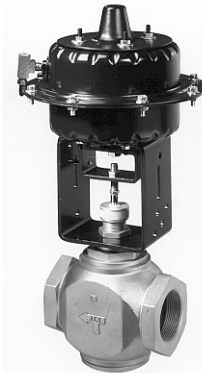
Features

- industrial-grade, drawn-steel actuator fits VG7000 Series valves 1-1/2 in. and 2 in. with 3/8 in. stem
- corrosion-resistant, electro-painted finish
- effective diaphragm area: 50 sq. in.
- controls: hot or chilled water, 100 psig saturated steam
- valve trim: stainless steel

- packing: spring-loaded PTFE and elastomer V-rings
- maximum supply air pressure: 25 psig (172 kPa)
- fluid temperature: 35°F to 338°F (2°C to 170°C), 100 psig saturated steam
- valve body static pressure rating: ANSI Class 250
- factory or field assembly
- for optional V-9502-95 Positioner, change **00** at the end of the code number to **01**

Repair Information

If the VG7000 Series Globe Valve fails to operate within its specifications, replace the valve body, actuator, or entire assembly. For replacement parts, contact the nearest Johnson Controls® representative.



MP84 Series Pneumatic Actuator Mounted on a VG7443 Brass Globe Valve

Selection Chart

Actuator Code Number			MP843C001C (1-1/2 and 2 in.)		MP843D001C (1-1/2 and 2 in.)		MP843E001C (1-1/2 and 2 in.)	
Spring Range			3 psig to 7 psig		4 psig to 8 psig		9 psig to 13 psig	
Valve Code Number	Size, in.	Cv	Closeoff psig	Code Number	Closeoff psig	Code Number	Closeoff psig	Code Number
Two-Way Normally Open — NPT End Connections (To specify a factory-mounted positioner, change 00 at the end of the code number to 01.)								
VG7243RM	1-1/2	28.9	165	VG7243RM+843C00	152	VG7243RM+843D00	88	VG7243RM+843E00
VG7243SM	2	46.2	106	VG7243SM+843C00	97	VG7243SM+843D00	56	VG7243SM+843E00
Two-Way Normally Closed — NPT End Connections (To specify a factory-mounted positioner, change 00 at the end of the code number to 01.)								
VG7443RM	1-1/2	28.9	39	VG7443RM+843C00	53	VG7443RM+843D00	121	VG7443RM+843E00
VG7443SM	2	46.2	24	VG7443SM+843C00	33	VG7443SM+843D00	76	VG7443SM+843E00
Note: For optional NPT 502-95 Positioner (To specify a factory-mounted positioner, change 00 at the end of the code number to 01.)								
VG7844RM	1-1/2	28.9	165/39	VG7844RM+843C00	152/53	VG7844RM+843D00	88/121	VG7844RM+843E00
VG7844SM	2	46.2	106/24	VG7844SM+843C00	97/33	VG7844SM+843D00	56/76	VG7844SM+843E00

WARNING This product is made of copper alloy, which contains lead. The product is therefore not to be used on drinking water.

WARNING This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

WARNING: BRASS MAY CONTAIN LEAD
To fulfill our obligations towards Article 33, in accordance to the European REACH Regulation No 1907/2006 EC, we hereby inform you that this article contains the following Substances of Very High Concern mentioned on the Candidate list:

- Lead

VG7000 Series Stainless Steel Trim Globe Valves with MP84 Series Pneumatic Actuators (Continued)

Technical Specifications

VG7000 Series Stainless Steel Trim Globe Valves with MP84 Series Pneumatic Actuators		
Service¹		Hot Water, Chilled Water, 50/50 Glycol Solutions, and Steam for HVAC Systems
Fluid Temperature Limits	Water	35°F to 338°F (2°C 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	30 psig (207 kPa) for 1-1/2 in. and 2 in. Valves
	Steam	100 psig (690 kPa)
Flow Characteristics	Two-Way Valves	Equal Percentage
	Three-Way Valves	Linear Flow Characteristics
Rangeability²		> 100:1 According to EN60534-2-4
Leakage		0.05% of Maximum Flow per ANSI/FCI 70-2, Class 4
Actuator Ambient Operating Temperature Limits		-20°F to 150°F (-29°C to 66°C)
Maximum Actuator Supply Pressure		25 psig (172 kPa) Maximum
Materials	Body	Cast Bronze
	Bonnet	Brass
	Stem	Stainless Steel
	Plug	Stainless Steel
	Seat	Stainless Steel
	Packing	Self-Adjusting Ethylene Propylene Rubber (EPR) Ring Pack U-Cups
Compliance	Canada	CRN: 0C1099.9087YTN

1. Refer to the VDI 2035 Guideline for recommended proper water treatment.

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